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INDEX OF

MINING ENGINEERING LITERATURE

COMPRISING AN

INDEX OF MINING, METALLURGICAL, CIVIL, MECHANICAL,
ELECTRICAL AND CHEMICAL ENGINEERING
SUBJECTS AS RELATED TO MINING
ENGINEERING

ALSO

COSTS OF MINING AND METALLURGICAL OPERATIONS, ETC.

BY

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> SECOND VOLUME FIRST THOUSAND

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PREFACE TO SECOND VOLUME OF INDEX

In order that an index may be valuable it must be added to from time to time, including references to the new material in the current technical literature and annual proceedings of societies. To this end the Index of Mining Engineering Literature has been enlarged by the preparation of an additional volume covering the list of publications indexed for the first volume, besides a number of other publications. Still other publications would have been incorporated in this volume of the Index had they been available.

The two special features that distinguish this Index from others are cross-references and multiple references. By the former is meant the reference to other subjects under which information can be obtained relative to the special subject in question; and by the latter is meant the breaking up of a paper or article into a number of references which are distributed under appropriate headings.

The special feature of the present volume of the Index is the list of references on cost which are distributed over and cover practically every phase of mining and metallurgical practice. These references to costs are particularly interesting and valuable to the practicing engineer.

As was stated in the former volume of the Index, the work has been the result of the unaided labor of the author, and all errors are, therefore, due to his oversight.

WALTER R. CRANE.

SCHOOL OF MINES, THE PENNSYLVANIA STATE COLLEGE, June 1, 1912.

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PUBLICATIONS INDEXED AND ABBREVIATIONS

JOURNALS, TRANSACTIONS AND PROCEEDINGS OF SOCIETIES

Am Jour. Min. — American Journal of Mining.

Coll. Engr — Colliery Engineer Coll Engr. & Met. Miner. — Colliery Engineer and Metal Miner.

Engineering, London.

E & M. J. — Engineering and Mining Journal.

J C M. I. — Journal of the Canadian Mining Institute

J. C. & M. Soc. S. A. — Journal of the Chemical and Metallurgical Society of South Africa.

J. W. Soc. E. — Journal of the Western Society of Engineers.

J M. Soc. N. S. - Journal of the Mining Society of Nova Scotia.

Min. Mag. (old series). — Mining Magazine. Min Mag. (new series). — Mining Magazine.

Min Mag., London. — Mining Magazine, London.

M. & M. — Mines and Minerals.

Min & Sci. Press. — Mining and Scientific Press.

- P. C. M. & M. Soc. S. A Proceedings of the Chemical, Mining and Metallurgical Society of South Africa
- P. E. Soc. W. Pa.—Proceedings of the Engineering Society of Western Pennsylvania.

P. Soc. P. E. E. — Proceedings of the Society for the Promotion of Engineering Education.

Sch. Mines Quart. — School of Mines Quarterly.

- T. A. I M. E Transactions of the American Institute of Mining Engineers.
- Au I. M E. Transactions of the Australian Institute of Mining Engineers

T I M E.—Transactions of the Institution of Mining Engineers.
T. I. M. & M.—Transactions of the Institute of Mining and Metallurgy.
T L S. M. I.—Transactions of the Lake Superior Mining Institute

N. S I. M. & M. E — Transactions of the North Staffordshire Institute of Mining and Mechanical Engineers.

T. F C. M. I. — Transactions of the Federated Canadian Mining Institute. U. S. G. S. Publications. — United States Geological Survey Publications, except Water Supply Papers.

PUBLICATIONS INCOMPLETELY INDEXED

Reports of Surveys, Proceedings of Societies, etc.

Ann. Min. Rept. N. S. Wales. - Annual Mining Report of New South \mathbf{W} ales.

Cal. Miners' Assoc. Ann. — California Miners' Association Annual.

Columbia Engr. — Columbia Engineer.

P. I. C. E — Proceedings of the Institute of Civil Engineers.

Rept. Census Office, Mines and Quarries. - Report Census Office, Mines and Quarries.

Rept. Inspr. Mines Pa — Report of the Inspector of Mines of Pennsylvania. Rept. Zinc Comm. Canada — Report of the Commission Appointed to Investigate the Zinc Resources of British Columbia, etc.

Second Geol. Sur. Pa — Second Geological Survey of Pennsylvania.

The Mines of the West. - Raymond.

The Univ. Geol. Surv. of Kans. - The University Geological Survey of Kansas.

Univ of Ill Bull. — University of Illinois Bulletin. U. S. Bureau of Mines. — United States Bureau of Mines.

JOURNALS

Am Engr. & R R Jour — American Engineer and Railroad Journal. Coll Guard. — Colliery Guardian, London. Concrete and Constructional Engineering, London. Electrochemical Industry Eng. Mag. — Engineering Magazine. Eng. News — Engineering News. Eng.-Cont. — Engineering Contracting. Mining World.

Books

Anthracite Coal Industry, Roberts Aerial or Wire Rope Tramways, Willis-Taylor. Coll. Working and Management, Bulman and Redymayne. Diamond Drilling, Denny Earthwork and Its Cost, Gillette.

Gold Min. & Mill. W. Aus. — Gold Mining and Milling Western Australia, Charleton.

Kents' Mech. Engrs. Pocket-Book — Kents' Mechanical Engineers' Pocket-Book.

Mech. Eng. of Coll. - Mechanical Engineering of Collieries, Futers.

Mine Building Construction. Miners Pocket-Book, Lock.

Ore Dressing, Richards.
P. C. M. — Practical Coal Mining, Ed. W. S. Boulton.

R.R. Construction. — Railroad Construction, Webb. Sci. Am. Supp. — Scientific American Supplement. The Gold Mines of the Rand, Hatch and Chalmers.

The Witwatersrand Goldfields, Truscott.

The Mechanical Handling of Material, Jimmer.

Tin Deposits of the World.

Tunneling, Prelini. Well-Boring, Isler.

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- COLLIERY DISASTERS. By F A. Hill. E. & M. J., vol. 86, p. 18. 2 columns.
- See also Coal Dust as an Explosive, Mine Fires, and Mine Explosions.
- MINE ACCIDENTS. By J. T. Quine. T. L S. M. I, vol. 14, p 71. 10½ pages.
- MINE ACCIDENTS By S. Reynolds. M. & M., vol. 29, p. 412. 3 columns
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- Mining Accidents in Cornwall.

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- ACCIDENTS IN THE COAL MINES OF GREAT BRITAIN. E & M. J., vol. 89, p. 975. 4 columns.
- COAL-MINE ACCIDENTS IN GREAT BRITAIN. E. & M. J., vol. 89, p 1029. 2 columns.
- Coal-Mining Accidents in 1907. M. & M., vol. 29, p 326. ½ column
- METAL-MINING FATALITIES IN IDAHO, FOR 1910. M. & M., vol. 31, p. 700. 1 column.
- COAL-MINE DISASTERS IN NORTH AMERICA FROM 1869 TO 1910. E & M. J., vol. 90, p. 949. Table
- MINE-ACCIDENT INVESTIGATIONS. By G. S. Rice. M. & M., vol 31, p. 282. 6 columns.
- MINE-ACCIDENT INVESTIGATION OF THE UNITED STATES GEOLOGICAL SURVEY. By G. S. Rice. J. W. Soc. E., vol. 14, p. 784. 37 pages. I.

- MINE ACCIDENTS AND THE BUREAU OF MINES. By G S Rice. Min & Sci. Press, vol. 101, p. 471. 5 columns.
- See also Bureau of Mines under Mining.
- ECONOMY AS RELATED TO MINE ACCI-DENTS. By H. E. Coll E. & M. J., vol. 87, p. 359. 8 columns.
- LEGISLATION ON ACCIDENTS Min. & Sci. Press, vol. 20, p. 33. $\frac{2}{3}$ column.
- COAL TRUSTS AND SAFE MINING (?). By W. H. Reynolds. M. & M., vol. 31, p 633. 5 columns
- RESULTS OF INQUIRIES INTO RECENT MINE DISASTERS. By F. W. Parsons E. & M. J, vol. 85, p. 259. 14 columns. I.

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- DEATH FROM ACCIDENTS IN MINES. P. C. M. & M. Soc. S. A., vol 7, p. 171. 5 columns.
- FATAL ACCIDENTS IN COAL MINES. By F. L. Hoffman. E. & M J., vol. 85, p. 34. 8½ columns.
- FATAL ACCIDENTS IN COAL MINES OF AMERICA. By F. L. Hoffman. E. & M. J., vol 86, p. 1207. 12½ columns.
- FATAL ACCIDENTS IN COAL MINES OF NORTH AMERICA. By F. L. Hoffman E. & M. J., vol. 88, p 1253. 10 columns.
- FATAL ACCIDENTS IN AMERICAN METAL MINES. By F. L. Hoffman. E & M. J., vol. 89, p. 511. 7 columns.

- FATAL ACCIDENTS IN THE COAL MINES OF NORTH AMERICA By F L Hoffman. E & M. J., vol 90, p. 1313. 9‡ columns.
- DATA ON MORTALITY AND MORBIDITY OF MINERS By F. L. Hoffman. E & M. J, vol 89, p. 1321, 9\frac{1}{2} columns; vol 90, p 23. 10 columns.
- COAL-MINING FATALITIES IN BEL-GIUM By F L Hoffman E. & M. J, vol. 90, p 519 5½ columns. D

Cause of Accidents

- COAL-MINE ACCIDENTS: Their Causes and Prevention By C. Hall and W. O. Snelling U. S. G. S., Bull. 333, 21 pages, 1907.
- CAUSE OF ACCIDENTS M. & M, vol 31, p 410. 4 columns.
- CAUSES OF ACCIDENTS IN RAND MINES Min. & Sci. Press, vol. 97, p. 193. † column
- CAUSE OF MINE EXPLOSIONS. By James Ashworth. Colliery Engineer, vol. 16, p. 127.
- Instantaneous Outbursts of Gas in Shaft Sinking. E. & M. J., vol. 88, p 1271 1½ columns.
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- Accidents to Mule Drivers. M. & M, vol. 29, p. 288 d column.
- ACCIDENTS FROM THE DRAWING OF PROPS E. & M. J, vol 87, p. 359. 1½ columns.
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- ACCIDENTS FROM USE OF EXPLOSIVES. By J. W Stark. M. & M., vol. 29, p. 381. 4½ columns.

- Accidents in Loading and Firing Explosives M. & M, vol. 29, p. 382 2 columns
- See also Methods of Firing Explosives and Tamping and Tamping Materials
- EXPLOSIVES AND MINING ACCIDENTS. T. Au. I M. E., vol. 9, p 31, 5 pages; p. 42 10 pages
- Common Causes of Accidents from Explosives in Mines By J R. Godfrey. T. Au. I M E, vol. 9, p 30. 32 pages.
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- ACCIDENTS CAUSED BY MISSED HOLES. E. & M J, vol. 87, p. 299. 1 column.
- See also METHODS OF FIRING Ex-PLOSIVES.
- ACCIDENTS IN TRANSPORTING EXPLOSIVES M. & M, vol. 29, p. 381. 1½ columns
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- See also BLASTING IN MINES AND EXPLOSIVES FOR MINING PURPOSES
- DANGERS ATTENDING USE OF ELECTRICITY IN COAL MINES. By J. Ashworth E & M. J., vol. 88, p. 123. 2½ columns.
- ELECTRIC SHOCKS AND FIRES IN MINES. E & M. J, vol. 87, p. 317. 1½ columns.
- ELECTRIC SHOCKS IN MINES. By I. F. Walker. M & M., vol. 31, p. 493, 32 columns; p. 543, 3 columns; p. 637. 4 columns.
- DEATH FROM ELECTRIC SHOCK AT CLIFTON COLLIERY, ENGLAND. By S. F. Walker. E & M. J., vol. 88, p. 779. 3 columns. I.
- An Accident Caused by an Electric Coal Cutter. E & M. J., vol. 88, p. 452. 2 columns. I.

- CARELESSNESS WITH ELECTRICITY. E. & M. J., vol. 90, p. 726. 1\frac{1}{3} columns.
- SAFE USE OF ELECTRICITY IN GASE-OUS MINES. M. & M, vol. 31, p. 126. 1 column.
- See also Electricity in the Mine.
- PECULIAR MINE ACCIDENT A Fire Resulting from Substituting Crude Petroleum for Car Lubricating Oil. By J Elliott. M. & M, vol. 29, p. 488. 1½ columns.
- Dangerous Gases Causing Mine Accidents. T. Au. I. M E., vol. 9, p. 37. 2 pages.
- See also Mine Explosions and Mine Gases.
- CARELESSNESS IN MINING: Cause of Accidents E. & M J., vol. 89, p. 526. \$ column.
- CARELESSNESS IN MINES CAUSE OF ACCIDENTS. M. & M, vol. 30, p. 355. ½ column.
- COAL-MINE ACCIDENTS ARE DUE TO VIOLATIONS OF MINE LAWS. E. & M. J., vol 88, p. 1176. 12 columns.
- MINE ACCIDENTS DUE TO DISREGARD OF LAW. E & M J., vol. 89, p. 578. 1 column.
- THE RESPONSIBILITY FOR RECENT COAL-MINE DISASTERS. E & M J., vol. 85, p. 969, 3½ columns.
- ACCIDENTS DUE TO LAX DISCIPLINE. E. & M. J, vol. 90, p. 1044. 3 col-
- See also Discipling in Mines.

Protection in Mining

- COAL-MINE ACCIDENTS AND THEIR PREVENTION. By J. A. Holmes. Min. & Sci. Press, vol. 100, p 673. 3 columns.
- COAL-MINE ACCIDENTS AND THEIR PREVENTION. By Dr. J. A. Holmes. Eng. News, Dec. 9, 1909.
- CAUSE AND PREVENTION OF EXPLO-SIONS. Colliery Guardian, vol. 59, p. 326.

- MINE-ACCIDENT PREVENTION. By J. J. Rutledge. M. & M., vol. 31, p. 276. 42 columns.
- A CHECK SYSTEM FOR GASEOUS MINES. By O. Cartlidge. M. & M, vol. 30, p. 331. 1 column.
- See also MINE ATMOSPHERE AND GASES.
- PRECAUTIONARY SUGGESTIONS TO ALABAMA COAL MINERS: Regarding Accidents. E. & M. J., vol. 89, p. 478. 2 columns.
- PREVENTION OF ACCIDENTS. M. & M., vol 31, p. 412. 1 column.
- PREVENTION OF ACCIDENTS IN MIN-ING. T. L. S. M. I., vol. 14, p. 93. 1 page.
- PREVENTION OF ACCIDENTS IN METAL MINES. By C T. Rice. E. & M. J., vol. 87, p 298 14½ columns I.
- PREVENTION OF MINE ACCIDENTS. Min & Sci. Press, vol. 97, p. 881. 17 columns
- THE PREVENTION OF ACCIDENTS IN COAL MINING By E H. Coxe. E. & M J., vol 88, p. 410. 9½ columns
- COAL-MINE ACCIDENTS AND THEIR PREVENTION. By J. A. Holmes. E & M. J., vol. 88, p. 1228. 2½ columns.
- PREVENTION OF COAL-MINE ACCIDENTS M. & M, vol. 30, p. 308. 5½ columns.
- PREVENTION OF COAL-MINE ACCI-DENTS. By J. A. Holmes M. & M., vol. 30, p. 329. 1 columns.
- PREVENTION OF MINE ACCIDENTS. By J. Mitchell. M. & M., vol. 30, p. 346. accidents.
- THE PREVENTION OF MINE ACCIDENTS. By R. H. Coulson. E. & M. J., vol. 90, p. 1043. 3 columns.
- PREVENTION OF MINE ACCIDENTS. E. & M. J., vol. 86, p. 1088. 21 columns.
- Accidents: Preventative Measures. P. C. M. & M. Soc. S. A., vol. 9, p. 247. 1½ columns.

SAFETY MEASURES IN MINING. By Donald Macaulay and L G. Irvine. P. C. M. & M Soc. S A, vol 6, p. 148, 17 columns, p. 197, 3 columns; p. 226, 4 columns; p. 251, 4 columns; p. 292, 32½ columns; p. 365½ columns; p. 369, 1 column; vol 7, p. 10, 3½ columns; p. 36, 15 columns; p. 76, 14 columns; p. 111, 18 columns; p. 159, 32 columns

To PREVENT BLOWN-OUT SHOTS. P. C M. & M. Soc. S. A., vol. 9, p. 319. 2 columns.

See also BLASTING IN MINES

How European Collieries are Safeguarded. E & M. J., vol. 89, p. 829. 7\frac{1}{2} columns.

AUTOMATIC PROTECTIVE SWITCH GEAR FOR COLLIERY SERVICE. By E B. Wedmore. T. I. M. E., vol. 38, p. 416. 14 pages. I.

THE BENNETT SAFETY GEAR. By S. G. Bennett. T. I. M. E, vol. 38, p. 647. 6 pages. I.

WHITE WASHING A COAL MINE. By S. Reynolds. M. & M., vol 30, p. 16 2 columns

LEVYING OF A FINE FOR EVERY FATAL ACCIDENT. E. & M J., vol. 87, p. 300. 1 column.

TESTING ROOFS IN MINES. P. C. M. & M. Soc. S. A., vol. 8, p. 48. ½ column.

See also Falls of Roof and Walls in Mines.

GOOD TIMBERING AND DEATH RATE.
P. C. M. & M. Soc. S. A., vol. 8,
p. 133. ½ column.

See also MINE SUPPORT.

Safe Use of Electricity in Coal Mining. By G R Wood. E & M. J., vol. 88, p. 19. 7½ columns.

ELECTRIC SHOCKS IN COAL MINES By S. F. Walker. E. & M. J., vol. 90, p. 725. 15 columns.

See also Cause of Accidents, and Electricity in the Mine.

PREVENTION OF SHOCKS IN COAL MINES. E. & M. J., vol. 90, p. 728. column.

Automatic Fire Protection. By W. A. Neracher. P. E. Soc. W. Pa, vol. 24, p. 321. 17 pages.

MEANS OF PREVENTING MINE FIRES. M. & M, vol. 31, p. 274. 1 column.

See also MINE FIRES.

On Safety Appliances and Precautions Necessary in Mines. By J. R. Godfrey. T. Au. I M E, vol. 6, p. 1. 33 pages. I.

THE PREVENTION OF MINE ACCI-DENTS: Report of Committee to American Mining Congress. E. & M. J., vol. 90, p. 601. 19 columns.

SAFETY IN MINES AND MILLS. E. & M. J., vol. 90, p. 11. 2 columns.

SAFETY PRECAUTIONS IN ALABAMA COAL MINES. E. & M. J., vol. 88, p 780. 1 column.

SAFETY PRECAUTIONS IN ALABAMA COAL MINES. By E. H. COXE E. & M. J., vol. 89, p. 1165. 9½ columns. I

SAFETY APPLIANCES IN GERMAN MINES. By R. W Voigt M. & M., vol 30, p. 460. 3 columns. I.

See also Safety Catches for Mine Cages and Shaft-Closing Ar-RANGEMENTS.

See also Overwinding and Its Prevention, and Safety Catches for Mine Cages

See also Mine Support: Conditions
Affecting.

See also Cost of Dams, etc.

Rescue Work in Mines

RESCUE WORK IN MINES Min. & Sci Press, vol. 98, p. 349. 2 columns. I.

MINE RESCUE WORK. Min. & Sci. Press, vol 101, p. 81. 7 columns I. RESCUE WORK IN MINES. P. C. M & M. Soc S. A., vol. 7, p. 100. 12 columns.

RESCUE WORK AT HAMSTEAD COL-LIERY. By D. J. Pierce. E. & M. J., vol. 86, p. 5. 1½ columns. I.

- RESCUE WORK AFTER MINE EXPLOSIONS. E. & M. J, vol. 90, p. 82. 32 columns.
- RESCUE WORK AT THE ST. PAUL MINE, CHERRY, ILLINOIS. E. & M. J., vol. 88, p. 1073. 1½ columns
- THE POSSIBILITIES OF RESCUE WORK IN CONNECTION WITH MINE EXPLO-SIONS AND FIRES. By J. S. Haldane. T. I. M. E., vol. 39, p 458. 27 pages. I.
- RESCUING THE MEN ENTOMBED AT ALPHA SHAFT NEAR ELY, NEVADA. By E. W. Walter. E. & M. J., vol. 85, p. 407. 3½ columns.
- To Avond Rescue Work. M. & M, vol. 30, p. 593. 1 column.
- Provisions for Mine Rescue in British Columbia. E & M. J., vol. 90, p. 201. 1 column.
- COLLIERY RESCUE BRIGADES IN GREAT BRITAIN. M. & M, vol. 31, p. 667.
- SUGGESTIONS FOR THE ORGANIZATION OF COLLIERY RESCUE BRIGADES. By Sgt. A. T. Winborn. T. I. M. E., vol. 37, p. 81, 19 pages. I.; p. 294, 20 pages.
- THE AEROLITH RESCUE APPARATUS M. & M., vol. 31, p. 521. 3½ columns. I.
- A New Breathing Apparatus. M. & M., vol. 31, p. 759. 21 columns. I.
- TISSOT BREATHING APPARATUS FOR RESCUE WORK. By H. Briggs. E. & M. J., vol. 89, p. 1027. 71 columns. I.
- ABROLITH BREATHING APPARATUS. By Alfred Gradenwitz. E. & M. J., vol. 85, p. 105. 2 columns. I.
- THE WEG BREATHING APPARATUS. E. & M. J., vol. 85, p 366. 2 columns. I.
- Breathing Appliances for Mines. P. C. M. & M. Soc. S. A., vol. 8, p. 65. 2 columns.
- ROYAL COMMISSION ON MINES AND BREATHING APPARATUS. P. C M. & M. Soc. S. A., vol. 8, p. 94. 3 coltimes.

- POINTS IN BREATHING APPARATUS. P. C. M. & M. Soc S. A., vol. 8, p. 397. † column.
- REQUIREMENTS OF A BREATHING AP-PARATUS FOR USE IN MINES. By W. E. Mingramm. T. A. I. M. E., vol. 39, p. 341. 9½ pages. I.
- THE USE OF BREATHING APPARATUS AT A MINE FIRE IN CAPE BRETON, WITH SOME NOTES ON THE CENTRAL RESCUE STATION OF THE DOMINION COAL COMPANY, LIMITED, AT GLACE BAY, CAPE BRETON, NOVA SCOTIA. By F. W. Gray and James McMahon. T. I. M. E., vol. 37, p 100 18 pages.
- Breathing Apparatus for Use in Mines: Discussion. T. I. M. E., vol. 36, p. 53. 3 pages.
- RESPIRATION DEVICES FOR MINES: The Artificial Regeneration of Air for Respiration in Life-Saving Apparatus for Mining Service. P. C. M. & M. Soc. S. A., vol. 5, p 191. 2 columns.
- SELF-CONTAINED RESPIRATING APPARATUS IN MINES. By A. E. Davidson. M. & M., vol. 29, p 118. column.
- OXYGEN HELMETS USED AT MINE FIRES. By O. Callidge. M & M., vol. 30, p. 712. 1 column.
- Oxygen Helmets Used at Mine Fire. By T. A. Carraher. M. & M, vol. 31, p. 161. 1½ columns. I.
- LIQUID OXYGEN FOR RESCUE WORK IN COAL MINES. By A Gradenwitz. E. & M. J, vol. 88, p. 923. 4[‡] columns. I.
- Tests of Life-Saving Appliances for Mines. By R. Grimshaw. E. & M. J., vol. 87, p. 1192. 2 columns.
- RESCUE APPARATUS IN AUSTRIAN MINES. E. & M. J., vol. 87, p. 414. 7 column.
- RESCUE APPARATUS FOR MINES. E. & M. J., vol. 86, p. 8. 12 columns.
- RESCUE APPARATUS IN COAL MINES. By W. E. Mingramm E. & M. J., vol. 85, p. 900. 5 columns. I.

- RESCUE APPARATUS FOR USE IN COAL MINES P C M. & M. Soc S. A, vol. 8, p. 160. 2½ columns.
- RESCUE APPLIANCES: Lessons from Glencoe. By H. Kestner. P. C M and M. Soc. S. A., vol. 8, p. 306, 11 columns, I.; p. 385, 1 column, vol. 9, p. 21, \(\frac{3}{4}\) column; p. 41, 8\(\frac{1}{2}\) columns, I.
- ON THE PRACTICAL USE AND VALUE OF COLLIERY RESCUE: Apparatus, and the Organization of Rescue Corps. By Geo. B Walker. T. I. M. E, vol 36, p. 536. 19 pages.
- DRÆGER LIFE-SAVING APPARATUS IN A MINE FIRE. Min. & Sci. Press, vol. 97, p. 401. § column.
- 4 New Smoke Helmet for Mine-Fire Fighting. M. & M, vol. 31, p. 281 ½ column. I.
- FIE ANACONDA FIRE HOOD By R.N. Bell. M. & M., vol. 29, p. 175.2 columns. I.
- See also MINE FIRES.
- THE ANACONDA PROTECTIVE HOOD. By R. N. Bell. E. & M. J., vol. 86, p. 708. 2 columns. I.
- REGENERATION OF AIR FOR SUBMARINES WITH FUSED SODIUM PEROX-IDE P. C. M. & M. Soc. S. A., vol. 7, p. 51. 1 column.
- EUROPEAN LAWS REGARDING BREATH-ING APPARATUS. M. & M., vol 31, p. 413. ½ column.
- COAL COMPANIES ESTABLISH RESCUE STATIONS. E. & M. J., vol 87, p 951. 2 columns.
- VINE RESCUE LABORATORY. By R. Y. Williams M. & M, vol. 29, p. 537 2 columns. I.
- An English Rescue Station. M. & M., vol. 29, p. 100. 3 columns. I.
- VINE RESCUE STATIONS AND MINE ACCIDENTS E. & M. J., vol. 89, p. 281. 4 columns.
- EBSCUE STATION AT LEISENRING No. 1.

 By C. B. Franks. M & M., vol. 30,
 p. 599. 2½ columns.

- RESCUE STATIONS IN ILLINOIS. By R. Y. Williams. M. & M., vol. 31, p. 214. 5 columns. I.
- MINE RESCUE STATIONS IN ILLINOIS. By R Y Williams. E. & M J., vol 90, p 176. 7½ columns I
- RESCUE STATIONS IN ILLINOIS COAL-MINING LOCALITIES. By R. Y. Williams J W. Soc. E, vol 15, p 655 23½ pages I
- See also Protection in Mining.

Compensation for Injuries

- MINER'S ACCIDENT RELIEF FUND. E. & M J., vol. 90, p. 25. \(\frac{1}{2}\) column.
- COMPENSATION TO WORKERS FOR ACCIDENTAL INJURIES. By M. M. Duncan E. & M. J., vol. 88, p. 519. 4½ columns.
- Compensation for Industrial Accidents By D. Ross. Min. & Sci. Press, vol. 101, p. 744. 5½ columns.
- COMPENSATION TO WORKMEN IN CASE OF INJURIES. By M M. Duncan. T L. S M. I., vol. 14, p. 47. 6 pages.
- Compensation for Injury. By R. P. Tarr. M. & M., vol. 31, p 410. 6½ columns.
- TAX FOR COMPENSATION TO INJURED.

 P. C. M. & M. Soc. S. A., vol. 9,
 p. 246. Note.
- See also Workman's Aid, Compensation and Insurance.
- MINER'S BENEFIT FUND E & M. J., vol. 90, p. 1013. ½ column.
- Homestake Aid Fund. E & M J, vol. 90, p. 309. 1½ columns
- G. W. Traer. Min. & Sci. Press, vol. 99, p. 717. 2 columns.
- ACCIDENT LIABILITY AND COMPENSA-TION. E & M. J., vol. 90, p. 23. 12 columns
- INDUSTRIAL ACCIDENTS AND EMPLOY-BES LIABILITY LAWS. By D. Ross. Min. & Sci. Press, vol. 99, p. 716. 2½ columns.

- Liability for Industrial Accidents. By Sion B. Smith. M. & M., vol. 31, p. 501. 5 columns.
- Possibilities of a New Liability Law. By S. Reynolds. M. & M., vol 31, p. 532. 72 columns.
- See also Workmen's Aid, Compensation and Insurance.

First Aid in Mining Accidents

- FIRST AID TO THE INJURED IN COAL MINES. By M. J. Shields
 Coal Mining Supplement, E. & M. J,
 vol. 88, p 42. 8 columns I.
- First Aid for Injured Spines. By T. C. Harvey. M. & M, vol. 31, p. 538 1½ columns. I.
- Suggestions for Organized Underground Ambulance Work. T. I. M. E., vol. 37, pp. 42–44, 218–223.
- FIRST-AID CORPS IN ALABAMA COAL MINES E & M. J, vol. 89, p 1166. 1 column.
- WILL FIRST AID CORPS LAST? M. & M., vol. 29, p 407. 1 column.
- Organization of First-Aid Corps. By M J. Shields M & M., vol. 29, p 379. 3½ columns
- First-Aid Work in New South Wales. M. & M, vol. 30, p. 366. 2 column.
- THE FIRST AID MOVEMENT. By H. H Stock. M. & M., vol 29, p 243. 11 columns. I.
- First-Aid Work at Coal Mines. By J. H. Ketner. M. & M., vol 31, p. 490. 2 columns. I.
- METHODS OF RESUSCITATION P. C. M. & M. Soc. S. A., vol. 10, p. 303. 2 columns.
- RESUSCITATION AFTER ELECTRIC SHOCK. M. & M., vol 30, p. 91. 12 columns.
- See also Cause of Accidents, and Electricity in the Mine.
- Apparatus for Conveying Wounded Men from Stopes. E. & M. J., vol. 89, p. 1263. 1 column. I.

- See also HEALTH OF MINERS.
- First-Aid Contest at Inkerman. M. & M., vol. 30, p. 225. 3 columns. I.
- FIRST-AID CONTEST. By C. A. Graves. M. & M., vol. 29, p. 172. 2 columns. I.
- FIRST-AID CONTESTS. M. & M., vol. 31, p. 197. 8½ columns I.
- READING FIRST-AID FIELD DAY. By H. H. Stoek. M. & M, vol 30, p. 121. 4 columns. I.
- See also Protection in Mining.

Falls of Roof and Walls in Mines

- Falls in Shafts: Shaft Accidents. By F. H. Wynne. T. I. M E, vol. 38, p. 653 18 pages.
- FALL OF LABORER DOWN THE RED JACKET SHAFT. E. & M. J., vol. 90, p 749 Note.
- WARRIOR RUN MINE ACCIDENT. M. & M., vol. 29, p. 121. 2 columns I.
- ACCIDENTS CAUSED BY FALL OF ROCK AND COAL. E & M J, vol. 88, p 412. ½ column.
- ACCIDENTS CAUSED BY FALLING ROCK IN METAL MINES. E. & M. J., vol. 87, p. 301. 13 columns
- SUMMARY OF THE "REPORT OF A COM-MITTEE APPOINTED BY THE ROYAL COMMISSION ON MINES TO INQUIRE INTO THE CAUSES OF AND MEANS OF PREVENTING ACCIDENTS FROM FALLS OF GROUND, UNDERGROUND HAUL-AGE, AND IN SHAFTE: Shaft Accidents. By F. H. Wynne. T. I. M. E., vol. 38, p. 653. 18 pages.
- SUMMARY OF THE "REPORT OF A COM-MITTEE APPOINTED BY THE ROYAL COMMISSION ON MINES TO INQUIRE INTO THE CAUSES OF AND MEANS OF PREVENTING ACCIDENTS FROM FALLS OF GROUND, UNDERGEOUND HAUL-AGE, AND IN SHAFTS," Part II: Falls of Roof and Sides. By W. Charlton and F. H. Wynne. T. I. M. E., vol. 39, p. 378. *20 pages.

- THE ALPHA SHAFT DISASTER. By W. S. Larsh. M. & M, vol. 29, p. 104. 4 columns. I
- See also Subsidence in Mine Workings.
- See also CAUSE OF ACCIDENTS.

Inundation in Mines

- Danger of Inrusees of Surface Water. E & M J, vol. 90, p. 973. 4\frac{1}{3} columns I
- TAPPING MINE WATER UNDER GREAT PRESSURE By Robert Sibley. E. & M. J, vol. 85, p. 562. 9½ columns. I
- FLOOD DAMAGE AT THE GREAT FALLS SMELTER, MONTANA. By F. S. Shewell. Min. & Sci. Press, vol. 97, p. 57. 2½ columns. I.
- THE MONTEREY FLOOD AND SAN LUIS-TTO BRIDGE. By S. J. Lewis. Min. & Sci. Press, vol. 99, p. 494. 47 columns. I.
- RECLAIMING A FLOODED GYPSUM MINE. By E. H. Fishack. E. & M. J., vol. 85, p. 1098. 3 columns. I.
- DIVERS IN MINING. P. C. M. & M. Soc. S. A., vol. 7, p. 57. 2½ columns; The Engineer, June 1, 1906, p. 373.
- See also Cause of Accidents. See also Cost of Dams, etc.

Coal Dust as an Explosive Agent

- Dust in Mines. Colliery Engineer, vol. 10, p 152; vol. 12, pp. 113, 196, 268; vol 13, pp. 6, 151.
- THE BAROMETRIC AND TEMPERATURE CONDITIONS AT THE TIME OF DUST EXPLOSIONS IN THE APPALACHIAN COAL MINES. By N H. Mannakee. T. A. I M E, vol. 40, p. 655. 12 pages.
- See also Mine Gases, and Barometric Pressure
- DUST EXPLOSIONS IN COAL MINES. By F. Bache. T. A. I. M. E., vol. 40, p. 667, 6 pages; Discussion, p. 907, 2½ pages.

- DUST EXPLOSION AT THE GARDANNE MINE, FRANCE. T. I. M. E, vol. 37, p. 696. 2 pages.
- EXPLOSIONS FROM COAL DUST IN ENGLISH MINES. By James Stead. Mining World, June 18, 1910
- COAL-DUST AND COLLIERY EXPLO-SIONS. Colliery Engineer, vol. 9, p 80.
- COAL DUST A CAUSE OF COLLERY EX-PLOSIONS. Colliery Engineer, vol 8, p. 83
- Another Explosion in which Coal Dust was an Important Element. Collery Engineer, vol. 9, p. 209.
- COAL-DUST EXPLOSIONS: Their Origin and Extension. By John Verner. Coll Engr. & Met Miner, vol 17, p. 26.
- DUST AS A FACTOR IN MINE EXPLOSIONS. E. & M. J, vol. 87, p. 14. 1 column.
- COAL DUST AS A FACTOR IN MINE EX-PLOSIONS By H. M. Payne. E. & M. J., vol. 86, p. 9. 16½ columns. D.
- DUST AS A FACTOR IN MINE EXPLO-SIONS By W. N Page E. & M. J., vol. 86, p. 1107 3½ columns.
- CAUSES OF COAL-DUST EXPLOSIONS. E. & M. J, vol. 85, p 1188. 1 col-
- See also Cause of Accidents
- COAL DUST WILL EXPLODE WITHOUT THE PRESENCE OF GAS. E. & M. J., vol. 88, p. 1227. 12 columns.
- CHEMISTRY OF A COAL-DUST EXPLOSION By Donald W. D. Stuart.
 Colliery Guardian, Mar 18, 1898.
 p 494
- CHEMISTRY OF COAL-DUST EXPLOSIONS. M. & M., vol. 31, p. 264. 5 columns.
- BRITISH COAL-DUST EXPERIMENTS.

 M. & M., vol. 29, p. 285. 10½ columns. I.
- New Experiments on Coal-Dust Explosions at Lievin. By E. Walch. E. & M. J., vol. 89, p. 381. 13 columns.

- Coal-Dust Experiments. E. & M. J., vol. 88, p. 878. 1½ columns.
- Some Results of Experiments Made to Test the Effect of Sprayers upon the Moisture of Main Roads at Brandon Colliery. By T. L Elwen. T. I. M. E, vol. 38, p. 311, 9 pages. I.
- Some French Experiments on Coal Dust. By H. Briggs. E. & M. J, vol. 90, p. 1266. 14½ columns.
- Coal-Dust Experiments E. & M. J., vol 86, p 817. 1 column.
- FRENCH COAL-DUST EXPERIMENTS. By J. Taffanel. Colliery Guardian, Aug. 13, 1909.
- EXPERIMENTS ON COAL-DUST DEPOS-ITS By L Morin. Colliery Guardian, Apr. 28, 1911.
- Dust in Mines. Colliery Engineer, vol 10, p. 20
- Amount of Coal Dust in Airways M. & M., vol. 29, p. 223. 1 column
- New and Old Coal Dust. M & M, vol. 29, p. 127 2½ columns.
- COAL-MINE DUST. E & M J., vol 86, p. 89. 1 column I.
- Coal Dust in Mines. J. M. Soc. N. S., vol. 13, p. 66 1½ pages
- Suppressing Coal Dust. Iron & Coal Trades Rev, Nov. 26, 1909
- METHOD OF DEALING WITH COAL DUST IN WESTPHALIA. Colliery Guardian, June 11, 1909, p. 1170; June 18, 1909, p. 1219.
- PREVENTING DUST FORMATION. By Herr Meissner. Gluckauf, July 8, 1911.
- REDUCTION, CONTROL AND COLLEC-TION OF COAL DUST IN MINES. By S. Mavor. Colliery Guardian, Sept. 15, 1911.
- Investigations on the Drying of Coal Mines and the Control of Mine Dust. By Herr Forstmann, Gluckauf, Jan. 15, 1911.
- EXTRACTING DUST FROM COAL MINES. Colliery Guardian, May 26, 1911.

- VENTILATING APPLIANCES AND DUST EXTRACTIONS IN COTTON MILLS. Engineering, Feb. 10, 1911.
- DUST REMOVAL IN COAL MINES. Electrical Review, May 26, 1911.
- DUST REMOVAL DEVICES IN RHINE LIGNITE DISTRICT. By Baldus. Gluckauf, Dec 5, 1908.
- Dust Collection in Anthracite Breakers. M. & M, vol. 29, p. 222. 1 column. I.
- DEALING WITH COAL DUST. By P. A. Grady. M. & M., vol. 30, p. 336. 2 columns.
- PREVENTION OF COAL DUST. P. C. M. & M. Soc. S. A., vol. 9, p. 173. 1 column.
- COAL DUST AS A FACTOR IN MINE EXPLOSIONS P. C M. & M. Soc. S A., vol. 9, p. 174. 12 columns.
- Conditions of Formation of Dust. By M. J. Taffanel. Colliery Guardian, Jan. 20, 1911.
- EXPERIMENTS ON LIQUID MIXTURES FOR LAYING COAL DUST By W. M. Thornton. Iron & Coal Trades, Review, Aug. 11, 1911.
- EXPERIMENTS ON LIQUID MIXTURES
 FOR LAYING COAL DUST By W. M.
 Thornton, Mining Engineering,
 Sept, 1911.
- COAL-DUST PROBLEM By John Verner. Coal Trade Bull, May 15, 1909.
- COAL DUST. By W. E Garforth. Colliery Guardian, May 26, 1911.
- Coal-Dust Question in America. Colliery Guardian, Dec. 10, 1910.
- PRESENT POSITION OF THE COAL-DUST PROBLEM. By J S. J. Ashworth Canadian Min. Jour., Nov. 1, 1908.
- THE COAL-DUST QUESTION IN GREAT BRITAIN By H. Hall E. & M. J., vol 87, p 1084 17 columns. I.
- THE COAL-DUST PROBLEM. By J. Verner. M. & M., vol. 29, p. 466. 6½ columns. I.

- An Analysis of the Coal-Dust Problem. By A. H. Stow. E. & M. J., vol 89, p. 1284 11½ columns.
- THE DUST PROBLEM IN COAL MINES. By J. Virgin E. & M J, vol. 88, p. 734. 13 columns
- INFLUENCE OF COAL DUST IN MINES. By Henry Kinlock Colliery Guardian, vol. 9, p. 568.
- DANGERS OF COAL DUST. E & M. J., vol. 90, p. 178. 2 columns.
- LESSONS FROM COAL-DUST EXPLOSIONS. E & M J., vol. 89, p. 1170. 3½ columns. I.
- Explosibility of Coal Dust. M. & M., vol 31, p. 369. 1 column.
- THE EXPLOSIBILITY OF COAL DUST. By G S. Rice. U. S. G. S, Bull. 425, 186 pages. I+.
- EXPLOSIBILITY OF COAL DUST E & M J., vol 90, p. 616. 2½ columns.
- EXPLOSIBILITY OF COAL DUST. Engineer, Dec. 9, 1910.
- Dust as an Explosive; from Amer. Exchange Review. Sci. Am. Sup. No. 125, Mar. 25, 1878.
- Is COAL DUST, AS SUCH, EXPLOSIVE? By A. H. Stow. E. & M. J., vol. 87, p. 17. 9 columns.
- Is Dust, as Such, Explosive? By F. Haas. M. & M, vol. 29, p. 227. 42 columns.
- Comparative Investigation of the Inflammability of Combustible Coal Dusts. By M. J. Taffanel. Revue de Metal, May, 1911.
- INFLAMMABILITY OF MIXTURES OF COAL DUST AND AIR. By P. P. Bedson. Iron & Trades Review, June 3, 1910.
- INFLAMMABILITY OF SHALE DUST. E. & M. J, vol 89, p. 786. 1 column.
- EXPERIMENTS ILLUSTRATIVE OF THE INFLAMMABILITY OF MIXTURES OF COAL DUST AND AIR. By P. P. Bedson. T. I. M. E., vol. 39, p. 719. 9 pages. I.
- EXPLOSIVE EFFECT OF ELECTRIC CURRENTS ON COAL DUST E. & M. J, vol. 85, p. 722. 12 columns.

- EXPLOSIVE EFFECT OF ELECTRIC CURRENTS ON COAL DUST. E. & M. J., vol. 85, p. 1110. 1½ columns.
- See also Cause of Accidents, and Electricity in the Mine.
- THE PROBLEM OF TREATING DUST IN. COAL MINES. By F. Haas. E. & M. J., vol. 86, p. 814. 9 columns
- DUST AND DUST-LAYING. P. C. M & M. Soc S. A., vol. 7, p. 163. 3 columns
- PULVERIZED SHALE FOR PREVENTION OF COAL DUST EXPLOSIONS E. & M J, vol. 87, p. 11. ½ column.
- CALCIUM-CHLORIDE TREATMENT FOR DUST. M. & M., vol. 29, p. 216. 2 columns.
- Coal Dust and Its Treatment with Calcium Chloride. E. & M. J, vol 89, p. 1125. ½ column.
- Use of Calcium Chloride in Mines to Maintain Damp Conditions and Lay Dust. M. & M., vol. 30, p 336. † column
- COAL DUST AND CALCIUM CHLORIDE. E. & M. J., vol. 90, p. 589. \(\frac{3}{2}\) column.
- COAL DUST TO DATE, AND ITS TREAT-MENT WITH CALCIUM CHLORIDE. By Henry Hall. T. I. M. E., vol 36, p. 500. 36 pages. I.
- COAL DUST AND ITS TREATMENT WITH CALCIUM CHLORIDE. T. I. M E, vol. 37, p. 553. 7 pages.
- SPRAYING COAL DUST AS A COLLIERY SAFEGUARD. By D. Harrington. E. & M. J., vol. 87, p. 194. 93 columns. I.
- Spraying Coal Mines. By D. Harrington M. & M., vol. 29, p. 102. 4\frac{3}{4} columns. I.
- EXPERIMENTS WITH SPRAYERS IN COAL MINES E. & M. J., vol. 89, p. 831. 1½ columns.
- THE EFFICIENCY OF SPRINKLING: Prevention of Coal Dust Explosions. E. & M. J., vol. 88, p. 78. ½ column.
- MINE SPRAYS AT THE BANNER MINE, ALABAMA E. & M. J., vol. 90, p. 327. 21 columns.

- Effect of Dampness from Spraying Mines or Miners. E. & M. J., vol. 90, p. 328. ½ column.
- COAL DUST SPRINKLING E. & M. J., vol. 85, p. 1009. 1 column. I
- COAL-DUST EXPLOSIONS. By J. Verner. M & M., vol. 31, p. 623. 11½ columns.
- Dust Explosions in Coal Mines. By G. S. Rice. T A I. M. E., vol. 41, p. 236. 5 pages.
- STONE DUST ZONES: Relating to Coal Dust Explosions. M. & M., vol. 31, p. 666. 1 column.
- DUST EXPLOSION AT MINNEAPOLIS, MAY 2, 1878, AND OTHER DUST EXPLOSIONS. By S. F. Peckham. M & M., vol. 29, p. 55. 6½ columns I.
- Coal-Dust Explosions M. & M., vol. 29, p. 103. 1 column.
- REPORT OF THE FRENCH COMMISSION ON EXPLOSIVES AND COAL DUST M. & M., vol. 29, p. 106. 2 columns
- COAL DUST AND MINE EXPLOSIONS. E. & M. J, vol. 88, p. 410. 2 columns.
- Dust Explosions in Coal Mines By F. Bache M. & M, vol. 30, p. 347. 3 columns.
- COAL DUST EXPLOSIONS Min Mag. London, vol. 2, p. 150. \(\frac{3}{4}\) column.
- GAS AND DUST IN MINE EXPLOSIONS. E. & M. J., vol. 85, p. 554. 1 column.
- EXPERIMENTS IN COAL DUST. By W. E. Garforth. Nature, Oct. 20, 1908
- COAL DUST EXPERIMENTS. By William Galloway. Sci. Am. Sup, Mar. 23, 1882.
- RECENT COAL DUST EXPERIMENTS.

 By Henry Hall Colliery Guardian,
 Jan. 20, 1911.
- COAL DUST EXPERIMENTS. By Dr. Czapliuski. Iron & Coal Trades Review, Sept. 10, 1909.
- BRITISH COAL DUST EXPERIMENTS. Iron & Trades Review, Oct. 1, 1909.

- British Coal Dust Experiments. Colliery Guardian, July 30, 1909.
- REPORT OF THE FRENCH COMMISSION ON EXPLOSIVES AND COAL DUST. M. & M., vol. 29, p. 106. 2 columns.
- Notes on Recent Demonstrations of Coal-Dust Phenomena. By James Ashworth. T. I. M. E., vol. 36, p. 366. 12 pages.
- RECENT DEMONSTRATIONS OF COAL-DUST PHENOMENA. T. I. M. E, vol. 37, p. 234. 19 pages.
- THE BAROMETRIC AND TEMPERATURE CONDITIONS AT THE TIME OF DUST-EXPLOSIONS IN THE APPALACHIAN COAL-MINES. By N. H. Mannakee. T. A. I. M. E., vol. 40, p. 655. 12 pages.
- RECENT DUST PREVENTION EXPERI-MENTS By Herr Quiring. Gluckauf, July 15, 1911.
- SHALE-DUST AND COAL-DUST TESTS AT BROXBURN. By R McLaren and W Clark. T. I M. E., vol 38, p. 362. 13½ pages. I.
- METHODS OF HEATING BITUMINOUS COAL DUST. By Herr Schwidtal. Gluckauf, Aug. 5, 1911.
- MICROSCOPIC EXAMINATION OF COAL DUST. By James Lomax Iron & Coal Trades Rev , Apr. 21, 1911
- Some Memoranda Concerning Coal-Dust and the Essential Principles of the Coal-Dust Theory. By H W. G Halbaum. T. I. M. E., vol. 39, p. 728. 34 pages.
- COMPARATIVE STUDY OF COMBUSTIBLE DUSTS Colliery Guardian, June 21, 1911.
- ESSENTIAL PRINCIPLES OF THE COAL DUST THEORY. By H. W G Halbaum. Colliery Guardian, June 3, 1910. p. 1065. 4 columns
- HISTORY OF THE COAL DUST THEORY. By W. Walker. Colliery Guardian, vol. 12, p. 268.
- DANGEROUS PROPERTIES OF DUST. By Prof. A T. Abel. Sci. Am. Sup. No. 374, Mar. 3, 1883; No. 375, Mar. 10, 1883.

DISTILLATION OF VOLATILE HYDRO-CARBONS DURING AN EXPLOSION OF COAL DUST. E. & M. J., vol. 87, p. 18. \(\frac{3}{2}\) column.

LECTRICITY AND COAL DUST. E. & M. J., vol. 89, p. 1238. 1 column.

GNITION OF COAL DUST BY ELECTRIC FLASHES. By W. M. Thornton and E. Bowden. Iron & Coal Trades Rev., Apr. 15, 1910

GNITION FROM INCANDESCENT FILA-MENTS OF ELECTRIC LAMPS. By E. Lemaire. Iron & Coal Trades Rev., Sept. 8, 1911.

GNITION OF COAL DUST BY SINGLE ELECTRIC FLASHES. E. & M. J., vol. 89, p. 1169. 2 columns.

OME EXPERIMENTS TO ILLUSTRATE THE IGNITION OF COAL DUST BY MEANS OF ELECTRICITY. By J. Cadman. T. I. M. E., vol. 39, p. 93. 4 pages

'HE IGNITION OF COAL DUST BY SINGLE ELECTRIC FLASHES. By W. M. Thornton. T. I. M. E., vol. 39, p. 201. 24 pages. I.

'HE IGNITION OF COAL DUST BY A NAKED LIGHT. By J. Cadman. T. I. M. E., vol. 38, p. 256. 3 pages. ee also Mine Atmosphere and

GASES.

Chambers of Refuge

By G. S. Rice. E. & M. J., vol. 90, p. 419. 11 columns. I.

AFETT CHAMBERS IN COAL MINES. E. & M. J., vol. 90, p. 32. 1½ columns.

& Sci. Press., vol. 100, p. 890. 22 columns. I.

OLLIERY RESCUE CHAMBERS. P. C. M. & M. Soc. S. A., vol. 9, p. 281. Note.

Mine Fires

vol. 89, p. 159. 1 column. ee also Cause of Accidents. FIRE AND FIRE RISKS. P. C. M. & M. Soc. S. A., vol. 7, p. 87. 1 column.

RECOLLECTIONS OF MINE FIRES. By W. Crosley. Min. Mag., London, vol. 3, p. 129. 6 columns. I.

MINE FIRES. E. & M. J., vol. 85, p. 1158 1 column.

MINE FIRES. E. & M. J., vol. 87, p. 300. 7 column.

MINE FIRES By T. K. Adams. M. & M, vol. 31, p 274 31 columns.

THE IDAHO MINE FIRE. Min. & Sci. Press, vol 100, p. 717. 2 column.

FIRE AT THE HOMESTAKE MINE MIN. & Sci. Press, vol. 96, p. 809. 2 columns.

FIRE IN LONDON MINE OF TENNESSEE COPPER COMPANY. By N. H. Emmons. E. & M. J., vol. 88, p. 1181. 3 columns. I.

COCKERILL MINE FIRE. M. & M., vol 30, p 569. 3 column.

NOTES ON THE CHERRY MINE DISASTEE. By G. S. Rice J W. Soc. E., vol. 14, p. 797 25 pages. I.

THE CHERRY MINE DISASTER M. & M., vol 30, p 423. 10 columns.

THE CHERRY MINE DISASTER. M. & M, vol 30, p. 296 3½ columns.

THE CHERRY MINE DISASTER AND ITS LESSONS By S Reynolds. E. & M J., vol 89, p. 525. 3½ columns.

A CHERRY MINER'S LAST MESSAGE. By F. W. Parsons. E. & M. J., vol. 88, p. 1173. 1\frac{1}{2} columns.

THE STORY OF THE ST. PAUL MINE FIRE. By F. W. Parsons. E & M J., vol. 88, p. 1119. 17½ columns. I.

Another View of the St. Paul Mine Disaster. By L. F. Wilson. E. & M. J., vol. 88, p. 1175. 2½ columns.

MINE FIRES IN THE LIGHTEE MINES OF ITALY. E. & M. J., vol. 89, p. 1180. 1½ columns.

THE PRICE-PANCOAST DISASTER M. & M., vol. 31, p. 616. 6 pages. Map.

- A SHAFT FIRE IN THE SHATTUCK MINE, BISBEE, ARIZONA. By J. Stauber. E. & M. J., vol. 85, p. 197. 2 columns.
- An Underground Fire Disaster. By J Ashworth. E. & M. J, vol. 86, p 1060. 62 columns. L.
- Underground Fires in Fiery Mines. By W. T. Heslop. T. I. M. E., vol. 38, p 338 16 pages. I.
- Underground Fires in Gassy Mines. E. & M. J, vol 89, p. 882 1½ columns.
- Underground Fires in Mines. By A. Aron. T. I. M. E., vol. 37, p 700. 1 page
- See also Cause of Accidents.
- ANTHRACITE BREAKER FIRES. E. & M J, vol. 89, p. 1172. 2 columns
- FIGHTING A MINE FIRE, NOVA SCOTIA.

 By F. W Gray. M. & M, vol 29,
 p 210. 2½ columns. I.
- FIGHTING FIRE IN AN ANTHRACITE
 COAL MINE By P. H. Devers.
 E. & M. J, vol 86, p. 86. 9\frac{3}{4} columns
- FIGHTING AN UNDERGROUND FIRE WITH OXYGEN BREATHING APPARATUS By F. W. Gray E. & M. J, vol 86, p 858. 2½ columns.
- FIGHTING THE FIRE AT THE HOME-STAKE MINE By B. C. Yates E. & M. J., vol. 85, p. 633. 23½ columns. I.
- PUTTING OUT THE HOMESTAKE MINE FIRE BY FLOODING E. & M. J., vol. 85, p. 636. 2½ columns.
- FOAM AS A FIRE EXTINGUISHER M. & M., vol 30, p. 4. 1 column.
- FIGHTING A COAL-MINE FIRE. By F. Lynde. E. & M. J., vol. 88, p 565.

 † column.
- Successfully Quenching a Mine Fire. M. & M, vol. 30, p. 340. 24 columns. I.
- DEALING WITH MINE FIRES. M. & M., vol. 31, p. 275. \$\frac{3}{2}\$ column.

- METHODS OF DEALING WITH GOB-FIRES IN THE MAIN COAL SEAM AT NETHERSEAL COLLIERY. By F. N. Siddall. T I. M. E, vol. 36, p. 454. 19 pages. I.
- EXTINGUISHING THE FIRE IN THE TESTASECCA MINE, SICILY. By F. C. Chrambach. T. I. M. & M., vol. 18, p. 153. 4 pages. I.
- THE REDUCTION OF FIRES IN MINES. By A G. Morse E & M J., vol 88, p. 166. 13 columns
- SULPHUR DIOXIDE AS AN AGENT IN FIGHTING MINE FIRES. By W O. Snelling. T. A. I. M. E., vol. 39, p. 550. 3 pages.
- Use of Steam in Extinguishing Fire at Homestake Mine. E. & M. J., vol. 85, p. 635. 2 columns.
- SEALING OFF SUMMIT HILL MINE FIRE.

 By H. H. Stoek. M. & M., vol. 30,
 p 1 8½ columns. I.
- SEALING OFF A FIRE. M. & M., vol. 29, p. 367. ½ column.
- TEMPORARY FIRE WALLS FOR COAL MINES. E. & M. J., vol. 87, p. 650.
- See also Underground Dams.
- Danger of Using Culm for Fills about Foundations: Fires By F. W. Brady. M. & M., vol. 29, p. 58. 1 column I
- See also Packing Mine Workings.
- MINE FIRE AT BUTTE. M. & M, Apr., 1901, p. 423.
- See also Description of Dams and Their Construction.
- See also Stoppings, Doors and Regulators.
- See also Underground Dams.
- See also MINE ATMOSPHERE AND GASES.

Mine Regulations

- RULES FOR THE GUIDANCE OF EM-PLOYERS UNDERGROUND. By R. C. Turner. Min. & Sci. Press, vol. 95, p. 493. 2 columns.
- MINING SAFETY LAWS. E. & M. J., vol. 87, p. 175. 6 columns.

- REGULATIONS GOVERNING THE COAL MINES OF THE ACADIA COAL COMPANY, NOVA SCOTIA. J. M. Soc. N. S, vol. 13, p. 58. 2 pages.
- GENERAL MINE RULES OF THE STAG CAÑON FUEL CO, New Mexico T. A. I. M. E, vol. 40, p. 358. 2½ pages.
- RULES AND REGULATIONS OF THE STAG CAÑON FUEL COMPANY, NEW MEX-ICO. M. & M, vol 31, p. 654. 2 columns.
- RULES OF THE H. C. FRICK COKE COMPANY. M. & M., vol. 29, p. 15 2 columns.
- Alabama Inspector's Warning Card. M. & M, vol. 31, p. 763 1 column
- CHANGES IN MINE REGULATIONS DUR-ING 1908-1909 E. & M. J., vol. 89, p. 1228. 4 columns.
- See also DISCIPLINE IN MINES.
- See also Use of Explosives in Coal Mining.
- See also Inspection of Mines.

Spontaneous Combustion in and about Mines

- Spontaneous Combustion of Coal. By E. Stansfield. J. C. M. I., vol. 13, p. 196. 33 pages. D.
- SPONTANEOUS COMBUSTION. By T. Seabridge T I M. E, vol. 36, p 109. 8 pages. I
- Spontaneous Combustion of Coal. By S W. Part and F. W Kressman. Univ. of Ill. Bull. 46, Dec. 19, 1911.
- SPONTANEOUS COMBUSTION IN COAL MINES By W H Shore Colliery Engineer, vol. 11, page 162.
- SPONTANEOUS IGNITION OF COAL IN ENGLAND Dysart-Main Seam. T. I. M. E, vol. 36, p 568. Note.
- SPONTANEOUS IGNITION OF COAL AND ITS PREVENTION By V. B Lewes. Colliery Engineer, vol. 12, p. 219.
- SPONTANEOUS IGNITION OF COAL. By R. O. Doane, Engineering News, Aug. 18, 1904; Mining Mag., Sept., 1904.

- SPONTANEOUS IGNITION OF COAL. P. C. M. & M Soc. S A., vol. 7, p. 226.

 § column.
- See also DECOMPOSITION OF COAL.

Mine Explosions

- EXPLOSIBILITY OF NATURAL GAS. P. E. Soc. W. Pa., vol 2, p. 343. 2 pages.
- See also Mine Atmosphere and Gases
- COLLIERY EXPLOSIONS AND THEIR CAUSES By Percy W. Taylor. Cassier's Magazine, July, 1911.
- EXPLOSIONS IN COAL MINES. By W. Seddon Colhery Engineer, vol. 9, p. 151.
- EXPLOSIONS IN COAL MINES By R. P. W. Oswald. Colliery Engineer, vol. 9, p. 232.
- REVIEW OF COLLIDEY EXPLOSIONS. By G. H Winstanley Iron & Trades Review, Mar. 17, 1911.
- Colliery Explosions and Coal Dust. Colliery Guardian, vol. 16, p 204.
- COLLEGEY EXPLOSIONS. Colliery Engineer, vol. 11, pp. 176, 259, 268.
- Explosions in Coal Mines E. & M. J., vol. 89, p. 928. 2½ columns.
- EXPLOSIONS IN THE UNITED STATES

 DURING THE LAST THREE YEARS.

 By C. E. Munroe Min & Sci.

 Press, vol. 99, p. 681. 82 columns.
- EXPLOSIONS IN BITUMINOUS COAL MINES By G. P. Bartholomew. E. & M. J., vol. 85, p. 368. 12 columns.
- RECENT EXPLOSIONS IN COAL MINES. By H. M. Chance. E & M. J., vol. 85, p. 553. 7½ columns.
- RECENT MINE EXPLOSIONS E. & M. J., vol. 85, p. 1111. 1 column.
- MINE EXPLOSIONS. P. C. M. & M. Soc. S. A., vol. 9, p. 246. 2 columns.
- Colliery Explosions in Prussia During 1907. T. I. M. E., vol. 37, p. 698. 2½ pages.

- EXPLOSIONS IN MINES AND COLLIER-IES, AND METHODS OF VENTILA-TION. Min. Mag., vol. 1, p. 97. 10 pages. I.
- REMARKS ON SOME RECENT EXPLOSIONS IN COAL MINES. By C. J. Coll J. M. Soc. N. S., vol. 13, p. 51. 16½ pages.
- VIEWS RESPECTING COAL-MINE Explosions: A Symposium. E. & M. J., vol. 87, p. 12. 14½ columns.
- REFLECTIONS ON SOME COLLIERY EX-PLOSIONS. E. & M. J., vol. 90, p. 466. 6 columns.
- EXPLOSIONS IN MINES Experimental Station. P. C. M. & M. Soc. S A., vol. 9, p. 280. 1½ columns.
- THE MARIANNA EXPLOSION. M. & M., vol 29, p. 272. 13½ columns. I.
- FACTS CONCERNING THE MARIANNA EXPLOSION. By F. W. PARSONS. E. & M. J., vol. 86, p. 1162. 9 columns. I.
- THE LICK BRANCH EXPLOSION E & M. J, vol. 87, p. 171. 3 column.
- LICK BRANCH DISASTER: Explosion. By H. H. Stoek. M & M., vol. 29, p. 360. 11½ columns. I.
- MINE EXPLOSION AT STEARNS, KENTUCKY. By H. M Payne E. & M. J, vol. 89, p. 474 5½ columns. I.
- MINE EXPLOSION AT STEARNS, KENTUCKY. M. & M., vol. 30, p. 572. 4 columns. I.
- THE MULGA MINE EXPLOSION. M. & M., vol. 31, p. 40. 4 columns. I and map of workings.
- THE MULGA MINE EXPLOSION. E. & M. J., vol. 89, p. 978. 1½ columns.
- EXPLOSION AT PALAN No. 2 MINE. M. & M., vol. 31, p. 202. 3½ columns. I.
- EXPLOSION AT PALAN MINE, MEXICO M. & M., vol 30, p. 462 2 columns. I.
- THE DELAGUA, COLORADO, EXPLOSION. By G. F. Duck. M. & M., vol. 31, p. 374. 13½ columns. I.

- NOTES ON THE DELAGUA, COLORADO, EXPLOSION. M. & M., vol. 31, 641. 4 columns. I.
- THE STARKVILLE, COLORADO, EXPLOSION. M. & M., vol. 31, p. 261. 4 columns. I.
- THE MORAL OF STARKVILLE. By S. Reynolds. M. & M., vol. 31, p. 391. 3\frac{3}{2} columns.
- THE PRIMERO DISASTER By R. L. Herrick. M. & M., vol. 30, p. 463. 16 columns I.
- NANTICOKE DISASTER Colliery Engineer, vol. 12, p 111.
- SOUTH WILKES-BARRE MINE EXPLOSION. M & M, vol. 30, p. 556. 1 column.
- WEHRUM MINE EXPLOSION. M. & M, vol. 30, p. 118. 4½ columns.
- REPORT ON THE MONONGAH MINE Ex-PLOSION. By George Harrison. E. & M. J., vol. 85, p. 264. 4 columns.
- THE BELLEVUE EXPLOSION, ALBERTA. By J. Ashworth. M. & M., vol. 31, p. 399. 4 columns I.
- THE PALOS MINE DISASTER M & M, vol. 30, p. 736. 2½ columns. L. BANNER MINE EXPLOSION M. & M..
- vol 31, p. 675. 2 columns.

 Notes on the Norton Hill Colliery
- EXPLOSION. By H. M. Morgan. E. & M. J, vol 87, p. 994. 5 columns
- A NATAL COLLIERY EXPLOSION, AND UNDERGROUND FIRES IN FIRRY MINES. By W. T. Heslop. T I. M. E., vol. 38, p. 338. 16 pages. I. See also MINE FIRES.
- THE COKEDALE, COLORADO, EXPLOSION. By G. F Duck M. & M., vol. 31, p. 658. 9\frac{3}{2} columns. Map.
- MINE GASES AND COLLIERY EXPLO-SIONS. By H. B. Winstanley. Iron & Coal Trades Review, Oct. 8, 1909.
- Gas Explosions in Belgium. By Herr Bracht. Gluckauf, Apr. 2, 1910.

- Phenomena Preceding Gas Explosions. By Francis Laur. E & M J, Sept. 11, 1909.
- CATALYTIC ACTIONS AND EXPLOSIONS OF GAS By Hans Fleissner The Vest Zeilscher f Berg u. Huttenwesen, Apr. 9, 1910.
- EXPLOSION IN WHICH COAL DUST WAS AN IMPORTANT ELEMENT. Colliery Engineer, vol 9; p. 201.
- See also Coal Dust as an Explosive Agent.
- LIST OF FATAL AND NON-FATAL EXPLOSIONS OF FIRE-DAMP OF COAL DUST, AND BAROMETER, THERMOMETER, Etc., Readings for the years 1907 and 1908. By P. Stezelecki. T. I. M. E., vol 36, p. 777. 2 pages. Tables.
- See also Mine Gases and Barometric Pressure.
- ATMOSPHERIC PRESSURE AND MINE EXPLOSIONS. By W. Hartman E. & M. J., vol. 89, p. 1164 17 columns. D.
- THE CAUSE OF COAL-MINE EXPLOSIONS. By William Griffiths. E. & M J., vol. 85, p. 301. 11 columns.
- MINE EXPLOSIONS AND THEIR CAUSES. By J Taylor. E. & M. J., vol. 87, p. 1191. 1½ columns.
- Report on Cause of Explosion at the Short Creek Mine E. & M. J., vol 87, p. 896. § column.
- See also CAUSE OF ACCIDENTS.
- MINE EXPLOSIONS AS RELATED TO EARTHQUAKES By W. A. Spalding. E. & M. J., vol. 88, p. 562. 57 columns.
- MINE EXPLOSIONS AS RELATED TO EARTEQUAKES By W. A. Spalding. E. & M. J., vol. 87, p. 899. 1 column.
- MINE EXPLOSIONS AS RELATED TO EARTHQUAKES. By W. A. Spalding. E. & M. J., vol. 87, p. 411. 9 columns.

- Seismic Disturbances and Coal-Mine Explosions. By A. H. Stow. E & M. J., vol. 88, p. 449. 53 columns.
- EXTENSION EXPLOSION. By E Jacobs. Canadian Min. Jour, Jan 1, 1910.
- EFFECT OF HUMIDITY ON MINE Ex-PLOSIONS: Discussion of Paper of C. Scholz, T. A. I. M E, vol. 39, p. 324. vol. 40, p. 835. 14 pages.
- EFFECT OF HUMDITY ON MINE EXPLOSIONS By C Scholz. T. A. I. M. E., vol. 39, p. 328. 8 pages.
- EFFECT OF HUMIDITY ON MINE Ex-PLOSIONS. By C. Scholz M & M., vol. 29, p. 156. 6½ columns. I.
- See also MINE ATMOSPHERE AND GASES.
- THE PHENOMENA PRECEDING GAS EXPLOSIONS. By F Laur E. & M. J., vol. 88, p. 500. 8 columns.
- PREVENTION OF MINE EXPLOSIONS. P C. M & M. Soc. S. A., vol. 9, p. 282. 3½ columns.
- THE PREVENTION OF COAL-MINE EX-PLOSIONS. By W. B. Williams E. & M. J., vol. 85, p. 816. 3 columns.
- Equipment for the Prevention of Mine Explosion. By W.S. Mayers E. & M. J., vol 85, p. 409. 4½ columns.
- THE PREVENTION OF MINE EXPLOSIONS. E. & M. J., vol. 86, p 860. 6½ columns.
- PREVENTION OF MINE EXPLOSIONS, REPORT AND RECOMMENDATIONS. By V. Watteym, C. Meisener, and R. Desborough. U. S. G. S., Bull. 369, 11 pages, 1908.
- PREVENTION OF MINE EXPLOSIONS.

 M. & M., vol. 29, p. 193. 3½ columns.
- PREVENTING MINE EXPLOSIONS. By G. H. Ashley. M. & M., vol. 29, p. 16. 4 columns.
- PREVENTION OF MINE EXPLOSIONS. By J. Ashworth. M. & M., vol. 29, p. 325. 2\frac{1}{2} columns. I.

THE CONTROL OF COAL MINE EXPLOSIONS. By H. J. Nelms. E. & M. J., vol. 87, p. 14, 2\frac{3}{2} columns.

See also Protection in Mining.

THE VALUE OF ZONES IN STOPPING FLAME. By J. Virgin. E. & M. J., vol. 88, p. 1173. 1½ columns.

ISOLATION OF CERTAIN AREAS FROM CONTACT WITH AFTER-GASES BY AN EXPLOSION. By N. Robinson. M. & M., vol. 29, p. 372. 1½ columns. I.

See also MINE ATMOSPHERE AND GASES.

A WARNING TO COAL MEN' Relating to
Mine Explosions. By E. Haworth.
M. & M., vol. 31, p. 672. 3 columns.

SEALING SHAFTS AFTER EXPLOSION.

By J. A. Garcia M. & M, vol 30,
p. 59. 6% columns. I.

ROYAL COMMISSION REPORT. Colliery Guardian, vol. 63, 1892.

Poisoning and Injuries

LEAD POISONING AND SUBLEMED WHITE LEAD. By J. I. Blair. E. & M. J., vol. 90, p. 1061. 2\frac{1}{3} columns.

Phosphorous Poisoning. M. & M., vol. 31, p. 693. 1 column.

Hydrocyanic Acid Poisoning. E. & M. J., vol. 86, p. 407. $\frac{2}{3}$ column.

DANGERS OF WHITE ARSENIC. P. C. M. & M. Soc. S. A., vol. 9, p. 314. † column.

Antidote for Arsenic Poisoning. M. & M., vol. 29, p. 508. Note.

Gaseous Poisoning. P. C. M. & M. Soc. S. A., vol. 5, p. 192. 4 columns.

THE HAMATOLOGY OF CARBON-MON-OXIDE POISONING. P. C. M & M. Soc. S. A, vol. 7, p. 386. 3½ columns.

Notes on the Persistence of Cyanide in the Stomach After Death. By W. H. Jollyman. P. C. M. & M. Soc. S. A., vol. 5, p. 170. 3½ columns.

CHLOROFORM AS AN ANTIDOTE AGAINST NITROUS VAPOURS. By A. Prister. P. C. M. & M. Soc. S. A., vol. 5, p. 63. ½ column. TREATMENT OF BURNS. P. C. M. & M. Soc. S. A., vol. 5, p. 67. ‡ column.

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EXPLOSION AT THE ALASKA-MEXICAN MINE. By R. A. Kmzie. E. & M. J., vol. 89, p. 603. 2 columns I.

EXPLOSION AT MEXICAN MINE, ALASKA. By R. A. Kinzie. Min. & Sci. Press, vol. 100, p. 423. 1½ columns. I.

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Snowslides in the Coeur d'Alene District. E. & M. J., vol. 89, p. 505. † column. I.

Landslides in the San Juan Mountains, Colorado, Including a Consideration of Their Causes and Their Classification. By L. C. Graton and C. H. Gordon. U. S. G. S., Professional Paper 67, 58 pages. I. 1909.

LANDSLIDE OR "ROCK-STREAM" AT HEAD OF AMERICAN BASIN, COLORADO. Min. & Sci. Press, vol. 101. p. 698. ½ column. I.

Thunder-Mountain Landslide By K. Baumgarten. Min. & Sci. Press, vol. 101, p. 698. 3 columns. I.

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- MINE STABLES FOR MULES M. & M, vol 31, p. 650. 5½ columns. I.
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GROUP ELECTRIC SHOT FIRING. By S F. Walker. E & M. J., vol. 85, p 1249. 5 columns.

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- Sources of Error in Analyses. By R. C. Benner. Min. & Sci. Press, vol 100, p. 492 4 columns I.
- GRADING ANALYSES By E. Stadler. M. & M., vol. 31, p. 344. 11 columns.
- CONTRIBUTIONS TO CHEMISTRY AND MINERALOGY FROM THE LABORATORY OF THE UNITED STATES GEOLOGICAL SURVEY By F. W. Clarke U S. G. S., Bull. 167. 166 pages 1900.
- COMBINED OFFICE AND LABORATORY
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 E & M. J., vol. 89, p. 1054. 2½ columns. I.
- MINE LABORATORY WORK AT GARY, WEST VIRGINIA. By V. Klier M. & M., vol. 31, p. 217. 3½ columns. I.
- TECHNICAL METHODS OF ANALYSIS By W. A. Seamon. Min & Sci Press, vol. 95, p. 249. 3½ columns.
- ANALYTICAL METHODS IN THE CAN-ANEA LABORATORY. By F. G. Hawley. E. & M. J., vol. 90, p. 647. 12 columns.
- New Analytical Methods. By F H. Mason. Min. & Sci. Press, vol 100, p. 683. 2 columns.
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- See also Testing Explosives
- Fractionation of Crude Petroleum by Capillary Filtration. By D T. Day. U. S. G. S., Mineral Resources, 1907.
- THE FRACTIONATION OF CRUDE PETRO-LEUM BY CAPILLABY DIFFUSION. By J. E. Gilpin and M. P. Cram U. S. G. S., Bull 365 33 pages 1908.
- RECTIFICATION OF NATURAL SULPHUR WATER. By F. H. Mason. Min & Sci. Press, vol 98, p. 527. 12 columns.
- See also METHODS OF DETERMINING SULPHUR.
- THE SANITARY VALUE OF WATER
 ANALYSIS. P. C. M. & M. Soc. S
 A., vol. 7, p. 93. 2 column
- Lists and Analyses of the Mineral Springs of the United States. By A C. Peale. U. S. G. S., Bull. 32. 235 pages. 1886.
- ANALYSES OF WATERS OF THE YELLOW-STONE NATIONAL PARK, WITH AN ACCOUNT OF THE METHODS OF ANALYSIS EMPLOYED. By F. A Gooch and J. E. Whitfield. U. S. G S., Bull. 47. 84 pages. 1888
- See also Pollution and Purification of Water.
- THE REDUCTION OF CALCIUM SUI-PHATE BY CARBON MONOXIDE AND CARBON, AND THE OXIDATION OF CALCIUM SULPHIDE. By H. O. Hofman and W. Mostowitsch. T. A I. M. E., vol. 41, p 763. 24 pages I.
- CHEMISTRY OF THE BROMO-CYANOGEN
 PROCESS. By S. H. Worrell. Min.
 & Sci. Press, vol. 98, p 356. 21 columns
- See also CYANIDING OF ORES.
- THE SEPARATION AND IDENTIFICATION OF THE MOST IMPORTANT CONSTITUENTS OF ESSENTIAL OILS. By A. Hoffman. Sch. Mines Quart., vol. 30, p. 139. 5 pages.
- AUTOXIDATION OF ORGANIC COM-POUNDS. By K. G. Falk. Sch. Mines Quart., vol. 29, p. 15. 9 pages.

- THE INFLUENCE OF MOIST AIR ON QUICKLIME. By J Gray. P. C. M. & M Soc. S. A., vol 9, p 396. 2 columns.
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- ENGINEERING CHEMISTRY IN CHEMICAL ENGINEERING By C F Mabery. P Soc. P E. E., vol. 15, p. 68. 10 pages
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- GEOCHEMISTRY The Relation between Geology and Chemistry By G T. Halloway M. & M., vol. 30, p. 657, 6 columns; p 757, 4 columns.
- THE DATA OF GEOCHEMISTRY By F W Clarke U S G. S, Bull 330 716 pages. 1908.
- GEOCHEMISTRY By G. T Halloway M. & M., vol. 31, p 26. 5 columns.
- Geochemistry P. C M & M. Soc S. A., vol. 9, p. 448. 2 columns.
- THE INTERACTION BETWEEN MINERALS AND WATER SOLUTIONS, WITH SPECIAL REFERENCE TO GEOLOGIC PHENOMENA. By E. C Sullivan U. S. G. S., Bull. 312, 69 pages. 1907.
- See also THEORY OF ORE DEPOSITS.
- The Blow-Pipe and Its Use in Chemical Analysis. Min Mag., vol 1, p 388, 8 pages, I.; p. 497, 2 pages; vol. 2, p. 153, 2 pages; vol. 3, p. 264, 4 pages; p. 476, 5 pages
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- Purification of Mercury. P. C. M. & M. Soc S. A., vol 10, p 224.
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- EXTRACTION AND USE OF MOLYBDENUM P C. M & M. Soc S. A, vol. 9, p. 171. 1 column.
- DETERMINATION OF MOLYBDENUM IN WULFENITE By J C. Evans. Min & Sci. Press, vol 97, p. 161. 12 columns.
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- VOLUMETRIC ESTIMATION OF URANIUM AND VANADIUM Min. & Sci. Press, vol. 100, p. 160. ½ column.
- DETERMINATION OF VANADIUM. P. C. M. & M. Soc. S. A., vol. 10, p. 294. 13 columns.
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- DETERMINATION OF FLUORINE. By C. A. Heberlein. Min. & Sci. Press, vol. 95, p. 591. 1 column. I.

- THE ESTIMATION OF GRAPHITE. P. C. M. & M. Soc. S. A., vol. 9, p. 128. 1 column.
- CHEMISTRY OF MANGANESE. By E. C. Harder. U. S. G. S., Bull. 427. 208 pages. I
- Analyses of Samples of Asphaltite T. A. I M. E., vol 40, p. 280. Tables.
- Analysis of Gas Coal Min. Mag., vol 6, p. 15. 11½ pages
- VOLUMETRIC DETERMINATION OF MAGNESIUM. Min. & Sci. Press, vol. 96, p. 571 $\frac{1}{3}$ column.
- QUANTITATIVE FIELD-TEST FOR MAGNESIA IN CEMENT-ROCK AND LIME-STONE By C Catlett T A. I. M. E., vol 38, p. 705. 4 pages.
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- A NEW RAPID VOLUMETRIC METHOD FOR THE DETERMINATION OF NIOBIUM IN THE PRESENCE OF TANTALUM AND ITS APPLICATION TO THE ANALYSES OF NIOBIUM MINERALS BY F. J Metzger and C. E Taylor. Sch Mines Quart., vol. 30, p. 323 12 pages.

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THE MANUFACTURE OF NITRIC ACID FROM AIR. E. & M. J, vol. 88, p. 65 1 column

Mineral Analysis

- DETERMINATION OF SILICA. Min. & Sci Press, vol. 99, p. 559. 1 column.
- THE CONSTITUTION OF THE SILICATES. By F. W. Clarke U. S G. S., Bull 125. 109 pages. 1895.
- THE ACTION OF AMMONIUM CHLORIDE UPON SILICATES By F. W. Clarke and G. Steiger. U. S. G S, Bull. 207. 57 pages. 1902.
- THE ANALYSIS OF SILICATE AND CARBONATE ROCKS. By W. F. Hillebrand. U. S. G. S., Bull. 422. 239 pages 1910.
- THE ANALYSIS OF SILICATE AND CARBONATE ROCKS By W. F. Hillebrand. U. S. G. S., Bull 305. 200 pages. 1906.
- CHEMICAL ANALYSES OF IGNEOUS ROCKS, WITH A CRITICAL DISCUSSION OF THE CHARACTER AND USE OF ANALYSES By H. S. Washington. U. S. G. S., Professional Paper 14. 495 pages 1903.
- CHEMICAL COMPOSITION OF IGNEOUS ROCKS EXPRESSED BY MEANS OF DIAGRAMS, WITH REFERENCE TO ROCK CLASSIFICATION ON A QUANTITATIVE CHEMICO-MINERALOGICAL BASIS. By J. P. Iddings. U. S. G. S., Professional Paper 18. 98 pages. I. 1903.
- THE SUPERIOR ANALYSES OF IGNEOUS ROCKS FROM ROTH'S TABELLEN, 1869 TO 1884, ARRANGED ACCORDING TO THE QUANTITATIVE SYSTEM OF CLASSIFICATION By H. S. Washington. U S. G. S., Professional Paper 28 68 pages. 1904.
- Some Principles and Methods of Rock Analysis. By W F. Hillebrand. U. S. G S., Bull. 176. 114 pages. 1900.

- MINERAL ANALYSES FROM THE LABO-BATORIES OF THE UNITED STATES GEOLOGICAL SURVEY, 1880–1903. By F. W. Clarke. U. S. G. S., Bull. 220. 119 pages. 1903.
- Analyses of Rocks, with a Chapter on Analytical Methods, 1880 to 1896. By F. W. Clarke and W. F Hillebrand. U. S. G. S., Bull. 148 306 pages. 1897.
- ERRORS IN THE CHEMICAL ANALYSIS OF GYPSUM. By G. Steiger. U. S G. S., Bull. 413. 37 pages. I. 1910.
- ANALYSES OF ROCKS By F. W Clarke. U. S. G. S., Bull. 168, 308 pages, 1900, Bull. 228, 375 pages, 1904; Bull 419, 323 pages, 1910.

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- SEPARATION OF ARSENIC AND ANTI-MONY BY MEANS OF KNORR DIS-TILLATION APPARATUS. By W. C. Smith. E. & M. J., vol. 88, p. 1062. 2 columns. I.
- NEW METHOD FOR DETERMINING ANTIMONY. E & M. J., vol. 88, p. 209. 1 column.
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- See also CHEMISTEY. METHODS AND PRACTICE.

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- PLATTNER'S TEST FOR GOLD ORES. Min. Mag, vol 6, p. 52. 2 pages
- DETERMINATION OF GOLD IN AURIFER-OUS SANDS BY THE WET METHOD P. C. M. & M. Soc. S. A, vol 7, p. 374. ½ column.
- METHOD FOR ANALYSIS OF GOLD-SILVER BULLION. P. C. M & M Soc. S. A., vol. 8, p. 86 5 columns
- DETERMINATION OF GOLD IN COPPER BULLION. By F F Hunt E & M. J, vol 87, p. 465. \$\frac{2}{3}\$ column
- THE ANALYSIS OF CHLORIDIZED ORES By P. J. Thibault. T Au I M E, vol. 7, p 72. 10 pages
- See also the Chlorination Process.

Paint Manufacture

- BLAIR'S ZINC-LEAD PIGMENT PLANT. By J. I. Blair. M. & M., vol. 31, p. 698. 4½ columns. I.
- THE USE OF COBALT OXIDE FOR MAKING PIGMENTS. By J. J. McEachern. J. C. M. I., vol. 13, p. 605. 15½ pages.

- TESTS FOR PAINTS. P. C M. & M. Soc. S. A, vol. 7, p. 51. 1 column.
- ZINC OXIDE MANUFACTURE. By W. F. Gordon Min. & Sci. Press, vol. 100, p. 390. 13 columns.
- SOUTHERN RED HEMATITE AS AN INGREDIENT OF METALLIC PAINT. By E. F. Burchard. U S. G S, Bull. 315, p. 430. 5 pages. 1906.
- Some Important Paint Tests By G. B. Heckel E & M J., vol. 85, p. 1099. 1 column

Methods of Determining Lead

- VOLUMETRIC ESTIMATION OF LEAD. E. & M. J., vol 86, p. 77 1 column
- RAPID DETERMINATION OF LEAD IN CHILLED BLAST-FURNACE SLAGS By F S. Schrimerka E. & M. J., vol. 89, p. 467. 21 columns.
- DETERMINATION OF LEAD AND CAD-MIUM IN SPELTER. By E. J Ericson. E. & M. J., vol. 87, p. 1036. 3 columns.
- PEROXIDE METHOD FOR DETERMINING LEAD E. & M. J., vol. 87, p. 262. 12 columns.
- DETERMINATION OF LEAD IN SPELITER AND IN ORES. By E J Ericson E & M J., vol 86, p. 178. 6 columns.
- DETERMINATION OF LEAD IN NICKEL ORES. Min & Sci. Press, vol. 97, p. 129. ½ column.
- ELECTROLYTIC DETERMINATION OF LEAD IN ORES. By R. C. Benner and W. H. Ross. Min. & Sci. Press, vol. 101, p. 642 3½ columns. D.
- THE LITHARGE METHOD. P. C. M. & M. Soc. S. A., vol. 8, p. 154. 1½ columns.

Methods of Determining Zinc

- CONTRIBUTIONS TO THE CHEMISTRY OF ZINC SMELTING. E. & M. J., vol. 88, p. 604. 1 column.
- ANALYSIS OF MINERALS CONTAINING ZINC. P. C. M. & M. Soc. S. A., vol. 7, p. 372. 1½ columns

- Delicate Method of Precipitating Zinc. P. C M & M. Soc. S. A., vol 7, p 298. Note
- ELECTROLYTIC DETERMINATION OF ZINC. E. & M. J., vol 86, p. 372. 1½ columns.
- A STUDY OF THE FERROCYANIDE METHOD FOR THE DETERMINATION OF ZINC P C M. & M. Soc. S A, vol. 7, p. 373. 2 columns.

Chemical Analysis in Cyaniding

- CHEMISTRY OF THE CYANIDE PROCESS. By W. H Seamon. M. & M., vol. 31, p. 689. 2½ columns.
- THE ESTIMATION OF SULPHO- AND FERROCYANIDES, ETC, IN CYANIDE SOLUTIONS CONTAINING COPPER. By L M. Green. T I. M & M, vol. 18, p. 59. 7 pages.
- Errors Due to the Presence of Potassium Iodide in Testing Cyanide Solutions for Protective Alkalinity. By B. Collingridge. T. I M. & M., vol. 19, p. 299. 12 pages.
- Errors in Testing Cyanide Solutions. E. & M. J., vol. 89, p. 1101.
- RAPID ANALYSIS OF COMMERCIAL CY-ANIDE. By R. Bell. E & M. J., vol. 89, p. 1114. 3½ columns.
- METHOD FOR DETERMINING POTAS-SIUM IN SODIUM CYANIDE. By J. E. Clennel. E. & M. J., vol 89, p. 1309. 1 column.
- DUTIES OF THE CYANIDE CHEMIST. E & M. J., vol. 86, p. 759. 2½ columns.
- THE CHEMISTRY OF SILVER SULPHIDE CYANIDATION. By W. A. Caldecott. E. & M. J., vol. 85, p. 1295. 2 columns.
- COMMERCIAL POTASSIUM CYANIDE. E. & M. J., vol. 89, p. 1307. 4 columns.
- COMMERCIAL SODIUM AND POTASSIUM CYANIDE. By W. J. Sharwood. E. & M. J., vol. 89, p. 614. 5½ columns.

Spurious Potassium Cyanide E & M J, vol 89, p 156. 2½ columns See also Cyaniding of Ores.

DETERMINATION OF ALKALINITY M. & M, vol 31, p 478 1½ columns.

TITRATING FOR PROTECTIVE ALKALIN-ITY By H. L. Sulman and F Reade. M. & M., vol. 31, p 479 1 column.

THE ACID SPECIFIC-GRAVITY TEST. By A Langerfeld M & M., vol. 31, p. 62 5 columns.

See also CYANIDING GOLD, ETC

Determination of Cobalt, Nickel, Tungsten, and Tin

DETERMINATION OF NICKEL E & M J., vol. 85, p 910 ½ column.

ELECTROLYTIC DETERMINATION OF NICKEL By V. P Davis E. & M. J., vol 87, p 590. 1 column.

See also Electrolytic Analysis

A NEW DIRECT METHOD FOR DETERMINING NICKEL IN STEEL. By H. Grossmann and W. Heilborn E. & M. J, vol. 87, p 912. 12 columns.

DYCYANDIAMIDE IN THE DETERMINATION AND SEPARATION OF NICKEL By H Grossmann and B Schueck. E. & M. J., vol. 85, p. 1044. 2 columns.

QUANTITATIVE ANALYSIS OF NICKEL IN COBAIT. P. C M & M. Soc. S A, vol. 8, p. 221 1 column

VOLUMETRIC DETERMINATION OF COBAIT. E & M. J, vol 88, p. 256. 12 columns.

VOLUMETRIC DETERMINATION OF TUNGSTEN. E & M. J., vol. 89, p. 382 ½ column

THE DETERMINATION OF TUNGSTIC ACID IN LOW-GRADE ORES. E. & M. J., vol. 87, p 1141. 2\frac{3}{4} columns.

THE DETERMINATION OF TUNGSTIC ACID IN LOW-GRADE WOLFRAM ORES By H W. Hutchin and F. J Tonks. T. I. M. & M., vol. 18, p 425. 14 pages. Analysis of Babbitt Metal. E. & M J, vol. 88, p. 677. 17 columns

A RAPID METHOD OF BABBITT METAL ANALYSIS P C. M & M. Soc. S. A, vol. 7, p. 50. 1 column.

Coal Analysis

Accuracy of Coal Analysis. P. C. M & M Soc S A, vol. 9, p. 132. 2 columns

ANALYSES OF BERING RIVER COALS, ALASKA E & M. J, vol 90, p. 272. Table

THE ANALYSIS OF COAL. By N W. Ford. M. & M, vol. 30, p 85. 5½ columns

ANALYSIS OF WEST VIRGINIA COALS. M & M, vol. 29, pp 305, 306, and 307. Tables.

CHEMICAL ANALYSES OF COALS TESTED AT THE UNITED STATES FUEL-TESTING PLANT, NORFOLK, VIRGINIA. By J S Burrows U. S G S, Bull 362. 23 pages. 1908.

See also Testing Fuels and Their Value.

METHODS OF ANALYZING ILLINOIS COALS. T A. I. M E., vol 40, p. 21 3 pages.

Analysis of Illinois Coals. T A. I. M. E, vol. 40, p. 5. 1 page. Tables; pp. 22 and 23.

CHEMICAL CONTROL OF COAL WASH-ERS By R. Bolling E. & M J, vol 86, p. 424 8 columns I.

THERMOCHEMISTRY OF ANTHRACITE. M & M., vol. 30, p 603. 4 columns.

ESTIMATION OF ASH IN COKE By H E Hooper E. & M. J, vol 87, p. 899 1½ columns.

See also Coke: Its Properties and Manufacture.

Methods of Determining Copper

VOLUMETRIC DETERMINATION OF COPPER M. & M., vol. 30, p. 260.
deciding column.

- A NEW VOLUMETRIC METHOD FOR COPPER AND THE ORES OF COPPER By A. Adair. P. C. M. & M. Soc. S. A, vol 6, p 188, 4 columns; p. 275, 1 column
- A NEW VOLUMETRIC ASSAY FOR COPPER E. & M. J., vol. 85, p. 1197. 2 columns.
- IODOMETRIC DETERMINATION OF COPPER E & M J., vol 85, p. 604. 1 column.
- PERMANGANATE METHOD FOR DETERMINING COPPER. By F. G. Hawley. E. & M. J., vol. 86, p. 1155. 2½ columns.
- THIOCYANATE DETERMINATION OF COPPER By W. Tsukakaskı. E & M. J, vol 90, p. 969 1½ columns.
- RAPID ELECTROLYTIC DETERMINATION OF COPPER By R. C Benner. E & M J., vol 90, p. 517. 5½ columns. I.
- THE DETERMINATION OF COPPER IN COPPER-BISMUTH ORES. By C C. O'Loughlin. Min. & Sci. Press, vol. 101, p. 238. 3 column.
- THE ELECTROLYTIC DETERMINATION OF COPPER AT TENNESSEE COPPER COMPANY. By T. W. Cavers and J. P Chadwick E. & M. J, vol. 89, p. 954. 3 columns.
- COMPARISON OF THE IODIDE CYANIDE AND ELECTROLYTIC METHODS FOR COPPER E. & M J, vol. 87, p. 159 1½ columns
- THE EFFECT OF THE PRESENCE OF CERTAIN "ADDITION-AGENTS" UPON THE DENSITY AND THE COHERENCE OF ELECTROLYTICALLY DEPOSITED COPPER, LEAD AND SILVER. By R. P. Jarvis and E. F. Kern. Sch. Mines Quart, vol. 30, p. 100. 29 pages. I
- See also Electrolytic Analysis
- RAPID METHOD FOR DETERMINING COPPER IN SLAGS. By F. D. Aller. E. & M. J., vol. 88, p. 1278. 1½ columns.

- RAPID METHOD OF DETERMINING COPPER IN SLAGS. By A W. Diack and T. Smith. E & M. J, vol. 89, p. 553. 2 columns.
- DETERMINATION OF SMALL QUANTITIES OF COPPER IN SLAG By C. A. Heberlein E & M. J, vol. 89, p. 306. 1 column.
- DETERMINATION OF COPPER E & M. J., vol. 87, p. 1041. 1 column.
- A DELICATE COLOR REACTION FOR COPPER P. C. M. & M. Soc S A., vol. 7, p 296. 1 column
- SOME ANALYSES OF COPPER BLAST-FURNACE SLAGS AND DETERMINA-TION OF THEIR MELTING POINTS. By A. T. French. T. I M. & M, vol 19, p 263 12 pages. D.

See also METALLURGY OF COPPER.

Electrolytic Analysis

- RAPID ELECTROLYTIC METHOD OF ANALYSIS. By R. C. Benner Min. & Sci. Press, vol. 101, p 576. 3 columns.
- ELECTROLYTIC DETERMINATION OF BISMUTH. E. & M J., vol 86, p. 115 ½ column.
- ELECTROCHEMICAL ANALYSIS WITH ROTATING ANODES. E & M. J, vol. 85, p. 956. 2 columns
- A New Apparatus for Electrolytic Determination of Metals. E. & M. J., vol. 86, p. 314. 1½ columns.
- See also Methods of Determining Copper.

Methods of Determining Iron

- ANALYSIS OF THE CLINTON IRON-ORE OF ALABAMA. T A I M. E, vol 40, p. 86. Table.
- Analyses of the Clinton Iron-Ores, Huntingdon County, Pennsylvania. T. A. I. M E., vol. 40, p. 143. 2 pages. Tables.
- Analyses of Clinton Oölitic Iron-Ore, New York State. T. A. I. M. E., vol. 40, p. 174. Table.

- DETERMINATION OF IRON IN BRASS AND BRONZE E & M. J., vol. 88, p 1269. 1 column.
- Tests of Iron Chemical Analysis. Mm Mag., vol 3, p. 25. 4 pages.
- THE STANDARDIZATION OF POTASSIUM PERMANGANATE SOLUTION AND ITS
- SUBSEQUENT USE IN TITRATING IRON By C. Offerhaus and E H Fischer. Sch Mines Quart, vol 30, p 40. 4 pages
- THE FERRITES, COMPOUNDS OF AN IRON ACID By J. S. C. Wells E. & M. J., vol. 86, p. 420 6 columns

COMPRESSED AIR IN MINING

General

- SIMPLE PROBLEMS IN AIR-COMPRESSION By E A RIX Min & Sci Press, vol 96, p 394. 7½ columns
- COMPRESSED AIR CALCULATION SHORT CUTS By S B. Redfield E & M J, vol. 88, p. 1163. 3½ columns. D
- STORING COMPRESSED AIR IN A NAT-URAL ROCK RECEIVER. E & M J, vol. 89, p 406 1 column.
- COMPRESSED AIR IN MINES By W L Saunders. E & M J, vol 89, p 500. 3 columns
- See also Compressed Air Pumping and Compressed Air Haulage.
- MOISTURE IN THE ATMOSPHERE AND ITS EFFECT ON THE OPERATION OF COMPRESSED AIR MACHINERY By H. M P. Murphy. Min. & Sci Press, vol. 97, p 257. 7½ columns. Tables.
- OIL HEATER FOR COMPRESSED AIR Mm. & Sci. Press, vol 100, p 929 1½ columns. I.
- AIR ECONOMY IN ROCK DRILLS By A. West. E. & M. J., vol. 87, p 895. 3 columns. I.
- See also MACHINE DRILLS.
- HIGH VS. LOW PRESSURE FOR COM-PRESSED AIR IN MINES. By Robt. B. Brinsmade. E. & M. J., vol. 85, p. 161. 3½ columns.
- TEST ON A MODERN AIR-COMPRESSING PLANT AT THE LONG TUNNEL GOLD MINE, WALHALLA, AUSTRALIA. By E. J. Rigby. T. Au. I. M. E., vol. 5, p. 259. 17 pages. I.

- Loss of Oxygen in Hydraulic Air Compression. By O H. Landreth. E & M J, vol 90, p. 508 1 column.
- STEAM CONSUMPTION OF AIR COM-PRESSORS. By W. A. Macleod and J. P Wood T. Au I. M E, vol. 12, p 165. 16 pages. D.
- Power at Cobalt. E & M J, vol. 88, p 171 12 columns
- INEFFICIENCY OF COMPRESSED AIR SYSTEM, RAND MINES E. & M J, vol 85, p. 549. 1½ columns
- THE TRANSMISSION OF POWER BY COMPRESSED AIR IN MINES. By R. W. Chapman T. Au I M E., vol. 10, p. 309. 17 pages.
- See also Power Transmission, Etc.
- See also Compressed Air Pumping.
- See also CYANIDING GOLD, ETC, and COST OF POWER

Air Compressors, Types, Operation, Etc.

- SMALL AIR COMPRESSORS AT MINES. M. & M., vol. 31, p 477. 1 column.
- Two-stage Air-lift Compressor Min. Mag, vol 4, p. 141. 1 column. I.
- CENTRIFUGAL AIR COMPRESSOR. M. & M., vol. 29, p. 279. 11 columns. I.
- TURBOBLOWERS AND COMPRESSORS. M. & M., vol. 31, p. 285. 3 columns. I.

- Air Compressing Machinery By J. Savaas. T. Au. I. M. E, vol 8, pt. 2, p. 215. 12½ pages. I
- ELECTRIC AIR COMPRESSOR By J A. SEAGER. M & M., vol 31, p. 263. 1 column. I.
- IMPROVEMENTS IN COMPRESSOR VALVES. E & M J., vol 88, p. 915. 2½ columns. I.
- AIR COMPRESSOR VALVES E & M. J., vol. 88, p. 1180. 2 columns.
- A Central Compressed-air Scheme Min. & Sci. Press, vol. 97, p. 537. 1½ columns.
- DESCRIPTION OF THE COMPRESSED ARE ENGINE AT GOVAN COLLERY By W. C. Randolph Min. Mag, vol. 9, p 51. 2½ pages.
- Some Air Compressor Tests By W. A. Macleod and J. P. Wood. T. Au. I. M. E., vol. 13, p. 59. 2 pages. D.

Hydraulic Air Compression and Compressors

- HYDRAULIC AIR COMPRESSOR. P. C. M. & M. Soc. S. A, vol. 8, p 132. 3 column
- Efficiency of Hydraulic Air Compression. E & M. J., vol. 86, p. 228. 2 columns. I

- Compressed Air by Water By G. C McFarlane. Min. & Sci Press, vol 100, p 281. 6½ columns. I.
- McFarlane Hydraulic Compressor. E & M. J, vol. 86, p. 716. 1½ columns. I.
- BLAKNEY HYDRAULIC AIR COMPRESSOR. E. & M. J, vol. 87, p. 841.

 † column. I.
- HYDRAULIC AIR COMPRESSION. By E. B Wilson. M. & M., vol 31, p 129. 4½ columns. I.
- COBALT HYDRAULIC AIR COMPRESSOR. By C H. Taylor. M. & M., vol 30, p 532 5 columns. I.

Compressed Air Haulage

New Compressed Air Locomotive. E. & M. J, vol. 89, p 1187. 2 columns. I.

Explosion in Air Compressors, Diseases, Etc.

- DISASTROUS AIR EXPLOSIONS: Explosions in Air Compressors. M. & M., vol. 31, p 683. ½ column.
- See also Causes of Accidents.
- EXPLOSION IN COMPRESSED-AIR MAIN. By J. A. Burgess. Min. & Sci. Press, vol. 97, p. 253. \(\frac{2}{3}\) column I

CLAYS AND THEIR USES

General

- A BIBLIOGRAPHY OF CLAYS AND THE CERAMIC ARTS. By J. C. Branner. U. S. G. S., Bull. 143. 114 pages. 1896.
- TECHNOLOGY OF CLAY INDUSTRY. By H. Ries. U. S. G. S., 16th Ann. Rept, pt. 4. 52 pages.
- CHINA-CLAY: Its Nature and Origin. By G. Hickling. T. I. M. E., vol. 36, p. 10. 25 pages. I.
- CLAY PRODUCTS SECTION OF THE TECHNOLOGIC BRANCH OF THE UNITED STATES GEOLOGICAL SUR-

- vey. By A. V. Bleininger. P. E. Soc. W. Pa., vol. 25, p. 565. 38 pages. D.
- See also Occurrence of Workable Clays.

Properties of Clays and Methods of Testing

CHINA-CLAY. Its Nature and Origin. By G. Hickling. T. I. M. E., vol. 36, p. 10. 25 pages. I.

- THE COLLOID MATTER OF CLAY. By H. E. Ashley U. S. G. S., Bull. 388. 65 pages I. 1909.
- EFFECT OF TANNIN ON CLAY. By H. Ries. U.S.G.S., Mineral Resources, 1902.
- CLAY MINING AND COAL MINING BY R. R. Hice. M & M., vol 30, p. 223. 43 columns
- See also Occurrence of Workable Clays.

Brick and Clay Products

- Sand-Lime Brick Industry By S. V Peppel. U S. G S, Mineral Resources, 1903. 23 pages.
- SAND LIME BRICKS. By H. Gerlings P C M. & M. Soc. S. A., vol 5, p. 124 7 columns, p 155, ½ column; p 205, ½ column; p 229, 6½ columns

See also MINING DISTRICTS.

CONCENTRATION

General

- CONCENTRATION METHODS EMPLOYED IN AUSTRALIA. T. Au. I. M. E., vol. 12, p. 105. 26 pages Flow sheets.
- ORE CONCENTRATION. P. C. M. & M. Soc. S. A., vol. 8, p 393. 2 columns.
- On Dressing of Ores. Min Mag, vol. 9, p. 56 4 pages; vol. 8, p. 535, 3 pages.
- DEVELOPMENTS IN GOLD-EXTRACTING MACHINERY, AND SOME CAUSES OF FAILURE. By J. W. Jaffray. T. Au I. M. E., vol. 4, p. 56. 38 pages.
- SILVER AND THE PRESENT STATE OF
- Its Winning from Argentiferous Ores. By A. Trippel Min. Mag., vol 4, p. 153, 17½ pages; p. 327, 12 pages.
- See also CYANIDING OF ORES.
- CALCULATION OF RECOVERY IN CON-CENTRATION. By T. J. Hoover. E. & M. J, vol. 89, p. 1234 4 columns.
- CALCULATION OF RECOVERY IN CON-CENTRATION. E. & M J, vol 90, p. 301. 1½ columns. Table.
- CALCULATION OF PERCENTAGE OF RE-COVERY. By T J Hoover. Mm. Mag., London, vol 3, p. 119. 7½ columns. D.
- TREATMENT PROBLEM OF THE RE-PUBLIC (WASHINGTON) GOLD ORES. By F. Cirkel. E. & M. J., vol 85, p. 246. 4½ columns.

- MEASUREMENT OF PULP AND TAILING. By W. J. Sharwood. Min. Mag, London, vol 2, p 45 18 columns I.
- TESTING MILL-TAILING. By W. E. Darrow Min & Sci. Press, vol. 95, p. 301 2 columns.
- ELIMINATING DUST FROM ANTERACITE
 BREAKER By J J. Jones. E &
 M J, vol 89, p. 733. 5 columns I.
 See also THE WASKE OF COAL AND JUST
- See also The Waste of Coal and Its Utilization.
- GOOD MANAGEMENT AND ORE-DRESSING BY AUTOMATIC MACHINERY. BY H W F. Kayser. T. Au. I. M. E, vol. 2, p. 98. 7 pages. I.
- See also Management of Mines.
- Witts' Friction Process of Ore-Dressing P. C. M. & M. Soc. S. A., vol. 7, p 14 5 columns. I.
- See also Cost of MILLING

Preparation of Coal

- COAL-WASHING PLANT OF THE STAG CAÑON FUEL Co.'s OPERATIONS, NEW MEXICO. T. A I M E, vol. 40, p 363. 8 pages. I
- COAL-TESTING IN THE UNITED STATES. P. C M & M. Soc S. A., vol. 7, p. 193. 4 columns
- See also TESTING PLANTS.
- COAL WASHERY PLANT CONTROL. By G R Delamater. M. & M., vol. 30, p. 55. 7 columns. I.

- See also Washing Coal and Mineral.
- PARABOLIC COAL PICKING PLATE.

 M. & M., vol. 30, p. 597 ³/₄ column. I.
- A NEW SEPARATOR FOR THE REMOVAL OF SLATE FROM COAL. By W. S. Ayres. T A I. M. E, vol 40, p. 648. 7 pages. I.
- CLEANING COAL BY THE DRY PROCESS. M.&M, vol. 30,p 335. 2 columns. I.
- See also DRY CONCENTRATION.
- THE BEAVER BROOK BREAKER. By T. M. Dodson. M. & M, vol. 30, p. 706. 63 columns I.
- THE TAYLOR CONCRETE BREAKER. By E. B. Wilson. M. & M., vol 31, p. 272. 13 columns. I.
- THE PECK SHAFT BREAKER. By E. B Wilson. M. & M, vol. 31, p. 513. 6 pages. I.
- THE RECOVERY OF ANTHRACITE FROM CULM BANKS. By R. Lee. E. & M J., vol 85, p. 720. 7 columns. I. See also Packing Mine Workings.

Testing Plants and Laboratories

- ORE TESTING AT SALT LAKE. By E. Gayforth. Mm. & Sci Press, vol. 96, p 134. 4 columns. I.
- THE CALIFORNIA ORE TESTING COM-PANY. Equipment of Plant and Flowsheet Mm. & Sci. Press, vol 95, p. 273. 2 columns. I.

Theory of Concentration

- Notes on Milling. By W. Beaver. P. C. M. & M. Soc. S. A., vol 6, p. 215, 5 columns; p. 253, 2½ columns; p. 275, 2½ columns; p. 315, 1 column; p. 341, 1 column; p. 365, 5 columns. I.
- THEORY OF THE SETTLEMENT OF SLIME. P. C. M & M. Soc. S. A., vol. 10, p. 149. 3 columns.
- THEORY OF THE SETTLEMENT OF SLIMES. By H. G. Nichols. Min. & Sci Press, vol. 97, p. 54 4½ columns. D.

- THEORY OF THE SETTLEMENT OF SLIMES. By H. E. Ashley Min & Sci. Press, vol. 98, p. 831 4 columns D.
- THEORY OF CLASSIFICATION E. & M. J., vol 89, p. 570. 7 columns.
- THEORY OF COAL WASHING. P. E. Soc. W. Pa., vol. 23, p. 203 18 pages. I
- See also Preparation of Coal and Washing Coal and Mineral.
- FREE AND HINDERED SETTLING OF MINERAL GRAINS By A. O. Christensen. E. & M. J., vol 88, p 503. 18 columns. I.
- DEVELOPMENT OF HINDERED-SETTLING APPARATUS By R. H. Richards. T. A. I. M. E., vol. 41, p. 396. 58 pages. I.
- VELOCITY OF GALENA AND QUARTZ FALLING IN WATER. By R. H. Richards. T. A. I. M. E., vol 38, p. 210. 26 pages I.
- Subsidence of Fine Particles in Liquids. By C. Barus U. S. G. S, Bull. 36. 54 pages. 1886.
- A NEW METHOD OF OBTAINING THE DENSITY OF SETTLED SAND. By D. I R Simpson. P. C. M. & M Soc. S A, vol 7, p. 158. 2 columns I.
- Specific Gravity of Concentrate. By E. B Van Osdel. Min & Sci. Press, vol 98, p. 667. ½ column.
- Solutions of High Specific Gravity. P. C. M. & M. Soc S. A., vol. 6, p 278 Note.
- THE THOULET SOLUTION IN ORE TESTING. By H. B. Hallowell. M. & M., vol 30, p. 531. 1½ columns I.
- Voids in Sand and Broken Stone. Min. & Sci. Press, vol. 101, p. 579. † column.
- MINERAL RELATIONS FROM THE LABO-RATORY VIEWPOINT. By A. L. Day. Min & Sci. Press, vol. 100, p. 680. I column.
- See also Testing Plants and Laboratories

- EXPERIMENTAL WORK IN ORE CON-CENTRATION By J. A. Davis. E. & M. J., vol. 86, p. 904. 7 columns. I.
- GRAPHIC METHODS FOR CONCENTRATION. By W. J. Sharwood. Min. Mag., London, vol. 3, p. 428. 2½ columns.

Launders and Distributors

- LAUNDERS IN THE CŒUR D'ALENE DISTRICT. E. & M. J, vol 89, p. 823. 1½ columns.
- THE CARRYING CAPACITY OF LAUNDERS. By W C Browning M. & M., vol. 29, p. 300 5 columns. I.
- Pulp Distributor in the Joplin District. E. & M. J, vol 89, p. 953. 1 column. I.
- See also PIPES AND PIPE FITTINGS.

Jigs and Jigging

- THE FIRST JIG USED IN CLEANING ANTHRACITE COAL. Coal Mining Supplement, E & M. J., vol. 88, p. 3. 1 column.
- First Practical Application of the Foust Jig. By Doss Brittain. E & M. J, vol. 85, p. 1089. 5½ columns. I.
- THE JIG AS A HINDERED SETTLING APPARATUS. J. C. M. I., vol. 13, p. 520. 26 pages I.
- See also Classifiers and Classification.
- EXPERIMENTAL STUDIES ON THE WORK OF WATER JIGS. By N. V. Hansell E. & M. J, vol. 85, p. 641. 5 columns. I.
- HYDRAULIC JIGS AS USED IN SARDINIA. T. A. I M. E., vol. 39, p. 81. 3½ pages. I.
- Coal Washing Jigs. P. E. Soc. W. Pa., vol. 23, p. 202 19 pages. I
- See also Preparation of Coal and Washing Coal and Mineral.
- PULSATORS IN DIAMOND TREATMENT: Jigs. P. C. M. & M. Soc. S A, vol. 7, p. 229. 11 columns.

- THE CLASSIFYING JIG IN USE AT THE BUNKER HILL MILL. Min. Mag, London, vol. 2, p. 367. 2½ columns. I.
- THE HANCOCK JIG IN LEAD CONCENTRATION. Min. & Sci. Press, vol. 101, p. 806. 2 columns. I
- THE TAYLOR VIBRATOR FOR ORE JIGS. T. I. M & M., vol 18, p. 2. 23 pages. I
- THE HAZELTON PLUNGER JIG. M & M., vol 31, p. 621. 2 columns. I.
- JIGS EMPLOYED AT THE CCEUR D'ALENE MILLS E & M J, vol. 89, p 375. 7½ columns. I.
- BULL JIG ROUGHER IN A JOPLIN ZINC MILL. By L L Wittich. E & M. J., vol. 89, p. 1214. 1 column I.
- THE JARVIS HAND-JIG T. A I. M. E, vol. 39, p. 461. 8 pages. I.
- Construction and Operation of Hand Jigs E. & M J, vol. 89, p. 1265 2½ columns. I.
- HAND JIGS USED IN SOUTH AFRICAN TIN FIELDS E & M J, vol. 89, p. 471. ½ column. I.
- Construction of Hand Jigs. Min. & Sci. Press, vol. 95, p 557. 1 column. I.
- JIGGING BY HAND By A. C. Nahl. Min. & Sci. Press, vol. 95, p. 557. 2½ columns. I.
- THE HAND JIG IN PRACTICE By C. N. Nelson. E. & M. J, vol 87, p. 910. 2 columns. I.
- Hand Jigs for Small Mines By J M. Calderwood. M. & M, vol. 31, p. 591. 1½ columns. I.
- RICHARDS PULSATOR JIGS AND CLASSI-FIERS E. & M. J., vol. 86, p. 621. 7½ columns. I.
- See also Classifiers and Classification.
- THE RICHARDS PULSATOR JIG. By R. L. Herrick. M. & M., vol. 29, p. 122, 4 columns. I.
- THE PULSATING PLUNGER JIG. T. I. M. & M., vol. 18, p. 2. 23 pages. I.,

- THE SEPARATION OF METALLIC ORES BY JIGGING. By A. Taylor. T. I M. & M, vol. 18, p. 2. 23 pages. I.
- Investigation on Jigging. By R P Jarvis. T. A. I M. E, vol 39, p 451. 70 pages. D.
- Wooden Jig Grates in the Joplin District. By O. Ruhl and F. Sansom. E. & M. J., vol. 88, p. 1025. 3½ columns I.
- A New Jig Grate E & M. J., vol. 89, p 451 3 columns. I.
- DEVICE TO REDUCE TOP WATER ON JIGS By J. L. Bruce. E & M. J., vol. 90, p. 399. 1 column. I.

Hand Dressing, Sorting

- Hand-Picking Ores in Sardinia T. A. I. M. E., vol. 39, p. 79. ½ page
- SORTING ORE BY HAND. By L D. Huntoon E. & M. J., vol 88, p. 964. 3½ columns.
- Hand Sorting of Ore. E. & M. J., vol. 89, p. 5. ½ column.
- SORTING TURQUOISE IN NEW MEXICO. E & M. J., vol 86, p. 845. 1½ columns.
- ORE SORTING IN MEXICO. E. & M. J, vol. 85, p 704. 1 column.
- SURFACE AND UNDERGROUND SORTING. P C. M. & M. Soc S A, vol. 7, p. 367. 1 column
- ORE SORTING AT THE CABRESTANTE MINES, SANTA BARBARA, MEXICO. By C. T. Rice. E. & M. J, vol. 86, p 464. 6½ columns I.
- SORTING ORE AT THE NEW KLEINFON-TEIN MILL, TRANSVAAL, SOUTH AFRICA. By E. J. Way. E. & M. J, vol. 85, p. 957. 1³/₂ columns.
- Some Facts and Figures of Sorting on the Rand. By L. D. Huntoon. E. & M J., vol. 88, p. 1069. 6½ columns.
- ORE SORTING IN THE PACHUCA AND REAL DEL MONTE. E. & M. J., vol. 86, p. 525. 1½ columns.
- ORE SORTING ON THE RAND T. Au. I. M. E., col. 5, p. 63. 6 pages.

- SORTING TABLE AT COBALT By G C. BATEMAN. E. & M J, vol 89, p. 1310. 1½ columns. I
- MAGNET FOR REMOVING STEEL FROM ORE E & M J., vol. 88, p 1238, 1 column I.

See also Cost of Sorting

Flotation Processes

- THE HISTORY OF THE FLOTATION PROCESS. Min. Mag., London, Vol. 1, p 61. 8 columns. I.
- FLOTATION PATENTS. Min Mag, London, vol. 1, p 289. 2 columns.
- THE PHYSICS OF ORE FLOTATION. P. C. M & M Soc. S. A., vol 6, p. 253. 1 column
- See also Theory of Concentration.
- A FEW NOTES ON THE ELMORE VACUUM PROCESS OF ORE CONCEN-TRATION By H H. Claudet. J. C. M I, vol. 11, p. 460. 2 pages
- THE ELMORE FLOTATION PROCESS. E. & M J, vol 86, p. 840 4 columns
- ELMORE PROCESS AS APPLIED BY ZINC CORPORATION. E & M. J, vol. 88, p. 205 7 columns I
- ELMORE VACUUM PLANT. Min & Sci. Press, vol. 98, p. 391. 2\frac{2}{3} columns I. Flow-sheet.
- Notes on Various Applications of the Elmore Vacuum Process. By A. S. Elmore. E. & M. J., vol 87, p. 1275. 5½ columns.
- OIL FLOTATION PROCESS AT BROKEN
 HILL, NEW SOUTH WALES. By T.
 J. Hoover. E. & M. J., vol. 89, p.
 913. 11 columns. I.
- METHOD OF DRYING OIL CONCENTRATES. By R. Storen. E. & M. J., vol. 85, p. 1151. ½ column. I.
- VACUUM-CONCENTRATION AT SULI-TELMA, NORWAY. By H. Holmsen and H N. Rees. Min. Mag., London, vol. 2, p. 377. 6 columns I.
- MACQUISTEN PROCESS OF FLOTATION. P. C. M. & M. Soc. S. A., vol. 9, p. 411. ‡ column.

- THE IMPROVED MACQUISTEN TUBE:
 Flotation Process By W. R. Ingalls. E. & M. J., vol. 86, p. 23.
 † column. I.
- THE MACQUISTEN CONCENTRATING PROCESS. E. & M J, vol 89, p 659.
- THE DEVELOPMENT OF THE DELPRAT AND POTTER FLOTATION PROCESS. By W. R. Ingalls E. & M. J., vol 86, p 175. 2 columns.
- ORE DRESSING BY ADDESSION OF LIQUID FILMS. By R. Storen E. & M J, vol. 86, p. 839. 9½ columns.
- Horwood Process for Separating Zinc Sulphides. Flotation. By D Clark E & M J., vol. 89, p 460. 4½ columns. I.
- THE SANDERS FLOTATION PROCESS. E. & M. J., vol. 87, p. 844. ½ column. I.
- THE MUREX MAGNETIC PROCESS: An Adjunct to the Flotation Process. Min. Mag, London, vol 1, p. 142. 4 columns
- See also Magnetic Concentration and Cost of Milling.

Amalgamation of Gold and Silver

- Amalgamation of Silver and Gold. Min. Mag, vol 10, p. 288. $5\frac{1}{4}$ pages.
- AMALGAMATION METHODS. By H. W. MacFarren Min. & Sci. Press, vol. 97, p. 814. 5½ columns.
- IMPROVEMENTS IN AMALGAMATION.
 Min. & Sci. Press, vol. 22, p. 344.
 13 columns.
- THE ECONOMICS OF AMALGAMATION. By J. H. Haynes M. & M., vol. 29, p. 321. 2½ columns.
- THE EFFECT ON AMALGAMATION, OF DIFFERENT INTERVALS OF TIME BETWEEN THE DRESSINGS OF PLATES. By G. O. Smart. P. C. M. & M. Soc. S A., vol. 9, p. 425. 10 columns.
- ELECTRO-CHEMICAL AMALGAMATION.
 By D. F. McGrow Min. & Sci.
 Press, vol. 98, p. 897. 12 columns.

- ELECTRO-CHEMICAL AMALGAMATION.
 P. C M & M. Soc S. A., vol. 10,
 p 26. 3 columns.
- METHODS OF ELECTROCHEMICAL AMALGAMATION. By E. E. Carey. Min & Sci. Press, vol. 100, p. 394. 2 columns.
- USES AND LIMITATIONS OF ELECTRO-LFTIC AMALGAMATION. By J. H. Jory. Min & Sci. Press, vol. 99, p 476 12 columns. I.
- AMALGAMATION FOLLOWING FINE GRINDING By C. F. Spaulding. Min & Sci. Press, vol. 101, p 872. 4½ columns. I.
- PEBBLE-MILL AMALGAMATION By W. H. Hardinger. Min & Sci. Press, vol. 100, p. 608. 12 columns I.
- See also Fine Crushing by Mills.

 The Washon Process. By A D
- Hodges, Jr Min. & Sci. Press, vol. 100, p 757. 3 columns.
- CLEANING MERCURY. Min & Sci. Press, vol. 96, p 695. ½ column.
- Notes on Mill Construction, Milling and Amalgamation By I. Roskelley. P. C. M & M. Soc. S A., vol 5, p. 9, 9 columns, I.; p. 49, 9 columns.
- See also MINE BUILDINGS, Erc., and Cost of MILLING.

Flow-Sheets

- FLOW-SHEET OF REPORTS. E. & M. J, vol 89, p. 1217 ½ column. D.
- FLOW-SHEET OF ASBESTOS TREAT-MENT IN QUEBEC J. C. M I., vol. 13, p. 413. I
- See also Occurrence of Aspestos.
- FLOW-SHEET OF THE BEAVER BROOK BREAKER M. & M., vol 30, p. 707. D.
- See also Preparation of Coal
- REVISED FLOW-SHEET OF UTAH COPPER MILL By C T. Rice E & M J., vol 90, p. 1264. 3 columns. I.
- FLOW-SHEET OF THE OHIO CONCENTRATOR. Min. & Sci. Press, vol. 101, p. 303. Diagram.

- FLOW-SHEET OF THE MIAMI MILL, ARIZONA. M. & M., vol 31, p. 2. I.
- FLOW-SHEET OF THE MT. MORGAN, MINE. M. & M, vol 29, p. 4. I.
- FLOW-SHEET OF ELECTROSTATIC SEPARATION. M. & M., vol. 30, p. 364 D.
- See also Electro-static Separation
- FLOW-SHEETS OF THE LORETO AND QUERÉTARO MILLS, MEXICO. Min. Mag, London, vol 2, pp. 130 and 131. D.
- Flow-Sheet of the Jesus Maria Mill, Guanajuato. E. & M J, vol. 86, p. 616. I.
- FLOW-SHEETS FOR COBALT MILLS. E. & M J, vol. 90, pp. 1254, 1255, 1256, and 1257. D.
- FLOW-SHEET AT THE AJUCHITLAN MILL, QUERSTARO, MEXICO Min. & Sci. Press, vol. 100, p. 214. 1 column I.
- FLOW-SMEET OF THE FLORENCE-GOLD-FIELD MILL. E. & M. J., vol. 89, p. 366. I.
- FLOW-SHEETS OF ORE TREATMENT AT KALGURLI, AUSTRALIA. Min. & Sci. Press, vol. 101, p. 402 D.
- FLOW-SHEET OF THE MONTGOMERY-SHOSHONE MILL. E. & M. J., vol 89, p. 218. I.
- FLOW-SHEET OF THE CONQUEROR TAIL-INGS PLANT. E. & M. J, vol 89, p. 668. I.
- FLOW-SHEET OF THE MIDVALE PLANT M. & M., vol. 30, p. 518. D.
- Flow-Sheets of Hercules and Federal's Mammoth Mill. E. & M. J, vol. 88, pp. 1105, 1106. D.
- FLOW-SHEET IN THE COEUR D'ALENE DISTRICT: Typical. E. & M. J., vol. 89, p. 824. I.
- FLOW-SHEET OF DOE RUN MILL, MISSOURI. E. & M. J, vol. 89, p. 611 I.
- FLOW-SHEET OF GRAPHITE TREAT-MENT. M. & M., vol. 30, p. 394 3 columns. D.
- See also OCCURRENCE OF GRAPHITE.

- Flow-Sheets of American and Mexican Mills. E. & M. J, vol 88, p 864, 12 columns, I.; p. 966, 8 columns D.
- Use of Plates in Amalgamation
- Notes on the Scaling and Sweating of Copper Battery Plates By S. F. Goddard. T. I. M. & M., vol. 18, p. 495. 4 pages.
- THE SILVER COATING OF AMALGAMAT-ING PLATES P. C. M & M Soc. S A., vol 9, p. 142 2 columns. I.
- SILVER COATING OF AMALGAMATING PLATES. By W. A. Caldecott Mm. & Sci. Press, vol. 98, p. 92. 1½ columns.
- COPPER PLATE ABSORPTION. P. C. M & M., Soc. S. A., vol. 9, p. 214. 1\frac{1}{2} columns.
- THE USE OF ELECTRO-PLATED COPPER PLATES IN THE BATTERY. By F. W. Cindel. P. C. M. & M. Soc. S. A, vol. 5, p. 92, 6 columns; p. 175, 3 columns; p. 205, 1½ columns; p. 316, ½ column.
- DRESSING PLATES AS AFFECTING AMALGAMATION E. & M. J., vol. 88, p. 556. 2½ columns.
- MONEL METAL. E. & M. J., vol. 86, p 1256. ½ column.
- SCALING AND SWEATING OF COPPER BATTERY PLATES. By S. F. Goddard. Min. & Sci. Press, vol. 99, p. 368. 1 column.
- THE AVERAGE RATE OF ACCUMULA-TION AND ABSORPTION OF GOLD AMALGAM BY COPPER PLATES By E. Halse T. I. M. & M, vol. 17, p. 486. 12 pages.
- ABSORPTION OF GOLD AMALGAM BY COPPER PLATES. E. & M. J., vol. 86, p. 996. 12 columns.
- THE ABSORPTION AND ACCUMULATION OF GOLD ON COPPER PLATES. By W. F. A. Thomas. T. I. M. & M, vol. 17, p. 482. 3½ pages.

Pan Amalgamation

- A NEW AMALGAMATING PAN Min. & Sci. Press, vol. 20, p. 209 3 columns. I.
- Pan-Amalgamation Experiments By H. O Hofman and C. R. Hayward. Min. & Sci. Press, vol 99, p. 529. 9½ columns. I.
- Pan-Amalgamation An Instructive Laboratory Experiment By H. O. Hofman and C. R. Hayward. T A. I. M. E., vol 40, p. 382. 16 pages. I., Discussion, p. 864. 10 pages I.

Amalgamating Apparatus (Amalgamators)

- THE PIERCE AMALGAMATOR. E & M J., vol. 85, p. 112. 1 column. I.
- THE PIERCE AMALGAMATOR By J H Haynes. M & M., vol 29, p 524 3 columns. I.
- AMALGAMATOR AT THE RUBY MILL, WARD, COLORADO Min. & Sci Press, vol 101, p. 875. 2 columns I.
- A Tail-Box for Amalgamation. Amalgam Trap By H S. Reed, Jr. E & M. J, vol. 89, p. 599. 2 columns I.

The Patio Process of Amalgamation

- THE PATIO PROCESS. By C. P. Duarte. P. C. M & M. Soc. S. A, vol. 9, p. 105. 9½ columns
- THE PATTO PROCESS. By F MacCoy. E. & M. J, vol. 90, p. 958. 2½ columns. I.
- THE PATIO PROCESS AT THE GUADA-LUPE HACIENDA, PACHUCA, MEXICO. E. & M. J, vol. 86, p. 559. 5 columns. I.
- THE PATIO PROCESS AT GUANAJUATO, MEXICO. E. & M. J., vol. 89, p. 961. 1 column.
- See also Cost of Milling.

Electrostatic Separation

- ELECTROSTATIC SEPARATION By H. A Wentworth Min. & Sci Press, vol. 101, p 567. 23 columns
- THE BLAKE-MORSCHER ELECTROSTATIC SEPARATOR. M & M, vol 30, p. 363. 2 columns. I.
- ELECTROSTATIC SEPARATION OF MINERALS IN ORES. By H A. Wentworth E & M. J, vol. 90, p. 15. 8\frac{1}{2} columns I
- ELECTROSTATIC ZINC SEPARATION By L A Palmer M & M., vol 30, p 362. 9 columns I.
- ELECTROLYTIC SEPARATION OF NICKEL AND COPPER. P C M & M Soc. S. A , vol. 9, p. 53. ½ column.
- See also Cost of Milling.

Magnetic Separation

- ELECTRO MAGNETIC SEPARATION By J. N Judson. E & M J., vol. 88, p. 270. 3½ columns.
- ELECTRICITY AS A FACTOR IN ORE DRESSING. Magnetic Concentration. By W B Roberts. T Au. I M E., vol. 1, p 131 4 pages I.
- AN ELECTROMAGNET FOR TESTING THE SUITABILITY OF AN ORE FOR MAGNETIC SEPARATION. By L. H. L. Huddart E. & M. J, vol. 85, p. 1008. 1½ columns. I.
- An Electro-Magnet for Testing the Suitability of an Ore for Magnetic Separation. By L H. L. Huddart. T. I. M. & M, vol. 17, p 435 5 pages. I.
- THE MAGNETIC PROPERTIES OF IRON AND STEEL AT LIQUID AIR TEMPERATURES By C C. Trowbridge. Sch. Mines Quart., vol. 24, p. 72. 12 columns. I.
- THE MUREX MAGNETIC PROCESS:
 Magnetism Applied to Flotation.
 Min. Mag., London, vol. 1, p. 142.
 4 columns.
- THE MUREX MAGNETIC CONCENTRA-TION PROCESS E & M. J., vol. 88, p. 371. 11 columns,

- MUREX MAGNETIC CONCENTRATION PROCESS. Mm. & Sci. Press, vol 98, p. 757. 1 column
- See also Flotation Processes.
- THE FERRARIS MAGNETIC SEPARATOR: A New Form. Min Mag, London, vol 2, p. 227. ½ column. I.
- THE GRONDAL PROCESS OF CONCENTRATING IRON ORES By P. McN. Bennie. J. C. M I, vol. 11, p. 189 14 pages I. Maps
- MAGNETIC CONCENTRATION OF IRON ORES BY THE GRÖNDAL PROCESS. By P McN. Bennie. J C M. I, vol. 10, p 261. 12½ pages. D.
- MAGNETIC SEPARATION OF ZINC ORES IN THE SANTA BARBARA DISTRICT, MEXICO. E. & M J, vol. 86, p. 211. 1½ columns.
- MAGNETIC SEPARATION OF WOLFRAM-ITE M. & M., vol 31, p. 462. 1 column. I
- MAGNET USED IN THE SEPARATION OF TIN-OXIDE FROM WOLFRAM T. I M. & M., vol. 17, p 157. Note I.
- THE SEPARATION OF TIN-OXIDE FROM WOLFRAM By A Treloar. T. I M.&M, vol. 17, p. 137. 22 pages. I.
- MAGNETIC SEPARATION OF MONAZITE IN THE CAROLINAS T A. I M E, vol. 40, p. 332. 6 pages. I
- MAGNETIC SEPARATION IN SARDINIA. T. A. I. M. E, vol. 39, p. 91. 3 pages.
- MAGNETIC SEPARATION AT MONTE-PONI. Min. Mag., London, vol. 2, p. 227. ½ column. I.
- See also Cost of MILLING.

Concentrators, Tables, Buddles, Etc.

- THEORY OF THE ACTION OF THE WIL-FLEY TABLE. By R. H. Richards. T. A. I. M. E., vol. 38, p. 556. 23 pages. I.
- The Wilfley Table, I. By R. H. Richards. T. A. I. M. E., vol. 38, p. 556. 23 pages. I.

- THE WILFLEY TABLE, II By R H. Richards T A I M. E, vol 39, p. 303. 11 pages I
- USÉ OF WILFLEY TABLES IN THE CŒUR D'ALENE DISTRICT E & M. J, vol. 89, p 822. 3 columns.
- CONCENTRATION OF FINE SANDS ON A BELT VANNER. By T. M. Owen and J. F. Stephen. T. Au. I. M. E., vol. 13, p. 143. 10½ pages.
- See also SAND TREATMENT.
- TREATMENT OF SLIMES ON VANNERS. By R Gahl T A I.M E, vol 40, p. 517. 21½ pages I
- See also Slimes and Their Treatment.
- A SUSPENDED FRAME FRUE VANNER. By G B. Shipley. E & M. J., vol 85, p. 415. 1 column I.
- VANNERS IN THE BUNKER HILL MILL Min. Mag., London, vol. 3, p 54. 1½ columns I.
- Vanners in the Cour d'Alene District. E & M J, vol. 89, p. 823. 1 column.
- La Point Flour-Gold Separator. E & M. J., vol 85, p. 1141 \(\frac{3}{2}\) column. I.
- GOLD SAVING TABLES ON CALIFORNIA DREDGES. E & M. J., vol 89, p 1311. 2 columns. I.
- See also Dredging for Gold and Other Materials.
- THE HENNING CONCENTRATING TABLE. E. & M. J., vol. 86, p. 134. 1 column. I.
- THE TAYLOR CONCENTRATING TABLE.

 Min. & Sci. Press, vol. 95, p. 692.

 12 columns. I.
- THE GOLDEN CYCLE CONCENTRATOR. M. & M., vol. 30, p. 673. 2 columns.
- RITTINGEE'S PERCUSSION TABLE. Min. & Sci. Press, vol. 20, p. 130. 1 column. I.
- OSCILLATING-TABLES FOR ORE TREAT-MENT IN SARDINIA. T. A. I. M. E., vol. 39, p. 83. 6 pages. I.

- RECIPROCATING TABLES IN THE BUNK-BR HILL MILL Min. Mag., London, vol. 3, p. 50. 6 columns.
- THE GREASE TABLE FOR COLLECTING DIAMONDS E & M. J, vol 89, p. 371. ½ column.
- CONSTRUCTION OF CANVAS TABLES FOR CANVAS SLIME PLANT E. & M. J, vol. 89, p. 356. 2 columns. I.
- AN IMPROVED BLANKET TABLE. By T. White. T Au I M E, vol 4, p. 36. 6 pages. I
- BUDDLES FOR COARSE AND FINE ORE IN THE TIN WORKS OF YUNNAN DISTRICT, CHINA T I. M & M., vol. 19, p. 191 1 page I
- THE BUDDLE AS A CONCENTRATOR OF COPPER SLIMES. By C. T. Rice E. & M J., vol 90, p 1107 5 columns I.
- THE MEXICAN PLANILLAS E. & M J, vol. 90, p 353. 1 column I.
- MEXICAN "PLANILLA" CONCENTRA-TOR By H. J Baron. M & M., vol. 30, p. 377. 3 columns. I
- ORE CONCENTRATOR. Min & Sci Press, vol 22, p 161 1 column I.
- CENTRIFUGAL DRY CONCENTRATOR.

 Min & Sci. Press, vol 97, p 608.

 1 column.

Washing Coal and Mineral

- PROCESS OF COAL WASHING. By S. Diescher. P. E. Soc. W. Pa, vol. 23, p. 199. 22 pages. I.
- DESCRIPTION OF WASHING (COAL)
 PLANTS IN OPERATION. By W. G.
 Wilkins. P. E Soc W. Pa., vol 23,
 p. 221. 20 pages. I.
- THE BITUMINOUS WASHERY AT TYLER, PENNSYLVANIA. By E. K. Judd. E. & M. J., vol. 85, p. 457. 8 columns. I.
- THE OPERATION OF A COAL WASHERY IN COLORADO. By W. F. Murray. E. & M. J., vol. 86, p. 1248. 9 columns. I.
- A MODERN COAL WASHERY IN NEW MEXICO. E. & M. J., vol. 86, p. 182. 61 columns.

- Washing and Coking Tests of Coal at Denver, Colorado. By A. W. Belden and others. U. S. G. S, Bull. 368 54 pages. I. 1909
- See also Testing Fuels and Their Value
- DAWSON COAL WASHING PLANT, NEW MEXICO M & M, vol. 29, p. 91. 2 columns. I.
- A New Coal Washery in Michigan. By Lee Fraser. E & M. J, vol. 87, p. 993. 3½ columns. I.
- COAL WASHING IN THE GREAT FALLS COALFIELD, MONTANA. E. & M J., vol. 87, p. 590. 1 column.
- THE COAL-WASHING PLANT AT THE DAWSON MINE, NEW MEXICO M. & M., vol. 31, p 656. 2½ columns I.
- ELECTRIC COAL WASHING IN SOUTH WALES. P. C. M. & M. Soc. S A, vol 9, p. 281. 1 column.
- ERNEST COAL-WASHING PLANT M & M, vol. 29, p 251. 3 columns I.
- Scalfe Automatic Trough Washer for Coal and Ore M. & M., vol. 29, p 328 3 column I.
- See also Preparation of Coal.
- THE LOG WASHER IN ZINC MINING. By L L Wittich. M. & M, vol. 31, p. 423. 1 column. I.
- LOG WASHERS USED IN MINNESOTA FOR WASHING IRON ORE. M. & M., vol. 29, p. 97. 3½ columns. I.
- Log Washer for Gold Ores. E. & M. J., vol. 87, p. 936 2 columns. I.
- ORE WASHING AT CRIPPLE CREEK. By S. A. Worcester. Mrn. & Sci. Press, vol. 98, p. 291 32 columns.
- NEW TYPE OF WASHER FOR LOW-GRADE GOLD ORES. By J. H. Pratt. E. & M. J., vol 87, p. 935. 10 columns I
- NEW PLANT FOR WASHING IRON ORE, MESABI RANGE By E. K. Soper. E. & M. J., vol. 90, p. 712. 5½ columns. I.
- Washing Floors for Tin Concentration, Yunnan, China. T. I. M.& M., vol. 19, p. 191. 1 page. I.

Something New in Ore Washing: A Washer. Min & Sci. Press, vol. 22, p. 392. 2 column.

BARITE WASHING T. A. I. M. E., vol. 40, p. 739. 2 pages. I.

THE ROTARY PAN METHOD OF WASH-ING TIN ORE. P C. M. & M., Soc. S A, vol 8, p. 175. 2 columns.

DIAMOND-WASHING Min. Mag., London, vol 3, p. 439 2 columns. I. See also Cost of Washing Coal and Ores.

Disposal of Waste

THE DISPOSAL OF RESIDUES AT KAL-GOORLIE By H Adams T. Au. I. M. E, vol. 13, p. 115. 13½ pages. I. THE JACKSON METHOD OF TAILINGS DISPOSAL. E. & M. J., vol. 85,

p 643. 3 columns. I.

DISPOSAL OF SLIMES AND TAILINGS AT

STELLA MINE, NEW YORK. E. &
M. J., vol. 88, p 556. 12 columns. I.

TAILING DISPOSAL PLANT AT THE WOLVERINE MILL By C. K. Baldwin. E. & M. J., vol. 88, p. 71. 8 columns I.

Tailing Disposal at Mercur, Utah. By H. W. MacFarren. Min & Sci. Press, vol 97, p 125. 1½ columns. I.

CONVEYING TAILING THROUGH PIPE.
Min. & Sci. Press, vol 95, p. 78.
11 columns.

See also Pipes, Erc.

CONVEYING TAILING IN LAUNDERS. By C. W. Van Law. Min. & Sci. Press, vol. 95, p. 457. 1 column.

See also Launders and Distributors.

Conveyor System for Disposing of
Waste. By E. Higgins. E & M.

J, vol. 87, p. 210. 3 columns. I. See also Conveyors for Mineral and Coal.

DUMPING RESIDUE AT KALGOORLIE. By M. W. Von Bernewitz. Min. & Sci. Press, vol. 95, p. 368. 4½ columns, I.; p. 459, 2 columns, I.

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- HISTORY OF SALT MAKING By E. W. Parker. U S G S, 18th Ann Rept., pt 5. 24 pages. 1896-97
- Purifying Rock Salt by Fusion E & M J, vol 86, p 564. ½ column
- SALT-MAKING PROCESSES IN THE UNITED STATES By T. M. Chatard. U. S. G. S., 7th Ann. Rept., pp. 491– 535 1885–86 I.
- SALT PRODUCTION WITH EXHAUST STEAM By N B. Beasley E & M J., vol 87, p 1150 1½ columns.
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- MILLING FLORIDA PHOSPHATES. E & M J., vol. 87, p 490. 8 columns I.
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- PORTLAND CEMENT Min. & Sci. Press, vol. 96, p 170. \(\frac{2}{4}\) column.
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- CHARACTERISTIC TESTS OF CEMENT By L L. Kimball U. S G. S, Mineral Resources, 1904
- Combustion in Cement-Burning By B E Eldred T. A. I. M. E, vol. 41, p. 479, 10½ pages; p 905, 3½ pages
- PORTLAND CEMENT MORTARS AND THEIR CONSTITUENT MATERIALS; Results of Tests Made at the Structural-Materials Laboratories, Forest Park, St Louis, Missouri. By R. L Humphrey. U. S. G. S., Bull. 331 130 pages. I 1908
- ON THE EMPLOYMENT OF RUBBLE BÉTON OR CONCRETE IN WORKS OF ENGINEERING AND ARCHITEC-TURE. By J Rennie Min Mag, vol 10, p. 60. 4 pages.
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- STRENGTH OF CONCRETE BEAMS. By R. L. Humphrey. U.S. G. S., Bull. 344. 59 pages. 1908.

- Notes on Concrete Construction. By R. A Cummings. P E Soc W. Pa, vol. 26, p. 159. 28 pages. I
- FORMS FOR CONCRETE By J. D. Stevenson P. E Soc. W. Pa., vol. 26, p 270 46 pages. I.
- How to Prevent Failure in Concrete Construction By W. Michaelis. J. W. Soc. E, vol 12, p 455. 18 pages.
- CONCRETE BOATS AND BARGES. Mm. & Sci Press, vol. 97, p. 95 } col-

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- THE USE OF CONCRETE FOR MINE SUPPORT. By W R Crane. T. I. M. E, vol 37, p 560. 26 pages. I.
- CONCRETE IN MINE SUPPORT. By W. R. Crane. Min & Sci. Press, vol. 98, p. 320. 11 columns. I.
- See also MINE SUPPORT.
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- COST OF DEVELOPING A MINE BY TURNED, CENTRAL AND SOUTHERN VERTICAL SHAFTS IN SOUTH AFRICA GOLD FIELDS. Sch. Min. Quart., vol. 21, p. 16.
- Cost of Opening and Developing of a Drift Mine. M. & M., vol. 25, p. 458. Table.
- An Approximate Estimate of the Opening and Development of a Drift Mine. M. & M., Apr., 1905, p. 458.
- COST OF DEVELOPMENT WORK CENTRE STAR MINING COMPANY, BRITISH COLUMBIA. Min. & Sci. Press, vol. 84, p. 33. Table.
- MINING AND DEVELOPMENT COSTS AT UNSON, KOREA. Min. & Sci. Press, vol. 100, p. 606. Table.

- DEVELOPMENT COSTS IN MEXICO.

 Min. & Sci. Press, vol. 98, p. 583.

 ½ column. Table.
- COST OF DEVELOPMENT AT THE ES-PERANZA MINE, EL ORO, MEXICO. MIN. & Sci. Press, vol. 99, p 825. Table.
- DEVELOPMENT COSTS AT THE ESPERANZA MINE: Shaft Sinking, Driving Cross Cuts and Drifts, and Sinking Winzes. Min. & Sci. Press, vol. 100, p. 519. Table.
- EXPENSES OF DEVELOPMENT IN SONORA, MEXICO. By F. J. H. Merrill. E. & M J., vol. 83, p. 1138. 13 columns.

See also DEVELOPMENT, ETC.

Cost of Drainage

- COST OF DRAINAGE OF THE COMSTOCK LODE. Mm. & Sci. Press, vol. 33, p. 433.
- Cost of Mine Drainage: Considerations Min. & Sci. Press, vol. 88, p. 294. 13 columns.
- Cost of Unwatering an Old Mine in Mexico. Min. & Sci. Press, vol. 98, p. 655. 1 column. Table.

See also MINE DRAINAGE.

Cost of Dams, Etc.

- Cost of Dam Construction. Min. & Sci. Press, vol. 91, p. 154. Table. Cost of a Cast-Iron Dam to Resist
- OUTBURST OF WATER T I. M. E, vol. 32, pp. 93, 94. Tables.
- See also Protection in Mining, and Inundations in Mines.
- COST OF CONSTRUCTING A REINFORCED CONCRETE RESERVOIR AT FORT MEADE, SOUTH DAKOTA. Eng-Cont., vol. 27, p. 91. 8½ columns.
- COST CONSTRUCTION OF CRIBBING FOUNDATION FOR BENTON MILLS DAM, CALIFORNIA. Min. & Sci. Press, vol. 84, p. 33. Table.
- Cost of Parts of Melones Dam Construction. Min. & Sci. Press, vol. 84, p. 128. Tables.

- COST OF RESTRAINING WORKS FOR MINING DEBRIS. Proceedings California Miner's Assoc. Annual, 1906, p 125 Table.
- See also Dams for Mining Purposes, and Mining Debris.

Cost of Dredging

- COST OF DREDGING. Min & Sci. Press, vol. 98, p. 556 $\frac{2}{3}$ column. Tables.
- COST OF DREDGING. Min. & Sci. Press, vol 41, p. 332. \(\frac{3}{4}\) column.
- THE COST OF DREDGING. E. & M J., vol. 81, p. 142. 2 columns
- Cost of Dredging. Min. & Sci Press, vol. 94, p 278. Note.
- Cost of Gold Dredging at Oroville, California. E. & M. J., vol. 48, p. 380. Table.
- Cost of Dredging. M. & M, Apr, 1901, p. 401 & column
- Dredging Costs E. & M. J., vol 78, p 541. 1 column.
- COST OF OFERATING DREDGING MA-CHINES. By John Bogat. Engineering, London, vol. 74, p. 290. 5½ columns
- COST OF RUNNING A GOLD-DREDGE FOR A WEEK T. I. M E., vol 21, p. 377. Table.
- Cost of Operating Dredges (Gold).

 Proceedings California Miner's
 Assoc, Annual, 1906, p 112
- Working Costs in Gold Dredging. Min & Sci. Press, vol 91, p. 178. Table.
- COST OF OPERATING A GOLD-DREDGE. T. A. I. M. E., vol. 40, p. 514 12 pages
- CAPACITY AND COST OF DREDGING. Chicago Drainage Canal. Engineering, London, vol. 63, p. 753. Table.
- Cost of Dredges; Cost by Dipper Dredge; Cost by Grapple Dredge; Cost by Bucket Elevator Dredge; Cost by Hydraulic Dredge; and Contract Prices of Dredging.

- EARTHWORK AND ITS COST. Gillette, Chapter 16.
- COST OF DREDGING FOR GOLD IN ALASKA. E. & M. J., vol. 80, p. 212. Note
- Cost of Dredging, Western Australia. Gold Min. & Mill W. Aus., p. 453. Notes
- COST AND PROFITS OF GOLD DREDGING IN NEW ZEALAND. Engineering, London, vol. 68, p. 35.
- COST OF GOLD DREDGING IN NEW ZEALAND. Min & Sci. Press, vol. 85, p 279. Table.
- COST OF BUCKET DREDGING IN NEW ZEALAND T. Au I. M. E, vol 12, pp 54-56.
- COST OF GOLD DREDGING IN CALIFORNIA. Min. & Sci. Press, vol. 88, p. 93 Tables.
- Costs and Profits of Gold Dredging in California. E. & M. J, vol. 71, p. 120.
- WORKING COSTS OF GOLD DREDGING IN CALIFORNIA. By C Janin and W. B. Winston. Min. & Sci. Press, vol. 101, p 150. 2\frac{2}{3} columns. Table
- Cost of Dredging in the Rivers of French Guiana. T. A. I. M E, vol. 41, p. 585 1 page. I.
- COST OF DREDGING ON THE SNAKE RIVER, IDAHO, WITH A SUCTION DREDGER E. & M. J, vol. 73, p. 241.
- COST OF AN ELEVATOR DREDGER (CHAIN-BUCKET TYPE) IN THE SAME LOCALITY AS ABOVE. E. & M. J., vol. 73, p. 242.
- Cost of Gold-Dredging in the URALS. T. A. I. M. E., vol. 37, p. 326. Table.
- COST OF GOLD DREDGING IN THE URALS. Min & Sci. Press, vol. 93, p. 228. Table.
- Cost of Dredging in Russia. By W. H. Shockley. Min. & Sci. Press, vol. 100, p 636. 4½ columns. Tables.
- See also DREDGING.

Cost of Drilling and Boring

- COST OF BORING WELLS IN DIFFERENT KINDS OF MATERIAL Well-Boring, C. Isler, p 67.
- Cost of Drilling Equipment for Deep Drilling. E & M. J., vol. 84, p. 880. Table
- RATE (COST) OF BORING ARTESIAN
 WELLS Min. & Sci. Press, vol. 56,
 p. 183. Note.
- ROCK BORING BY MACHINERY Eco-NOMICALLY SUCCESSFUL. Mm. & Sci. Press, vol. 19, p. 232. \$\frac{1}{6}\$ column
- COST OF DRILLING OUTFIT FOR ARTE-SIAN WELLS AND OTHER DEEP BORING Min. & Sci. Press, vol. 37, p 289. 1 column.
- Cost of Artesian Wells, San Francisco. Min. & Sci. Press, vol. 37, p 354, ½ column; vol 38, p. 18
- COST OF A 5-IN. BORE-HOLE, 1,809 FEET DEEP. T. I. M. E., vol 15, p 120. Table.
- COST OF LARGEST BORE-HOLE IN EUROPE. Engineering, London, vol. 71, p 25. 1½ columns.
- COST OF DRIVING WELLS. Well-Boring. C. Isler, p. 39. Table
- DRILLING COSTS IN TASMANIA TIN DEPOSITS. M. & M., vol. 31, p. 314. Tables.
- Cost of Drilling for Oil in Mexico. Min Mag, London, vol. 3, p. 286. Table.
- ON THE RELATIVE COSTS OF MINING NARROW VEINS: Hand Drills vs. Air Drills. By J. E. Hardman. J. M. Soc. N. S., vol. 3, p. 55. 5\frac{1}{2} pages.
- COST OF POWER VS HAND-DRILLING ON LAKE SUPERIOR. E. & M. J., vol 35, p 6. } column.
- See also HAND DRILLS.
- Speed and Cost of Drilling. Miner's Pocket Book, Lock, pp. 173, 174, 175, 176, 177, 178, 179.
- COST AND COMPARATIVE COSTS OF HAND AND MACHINE DRILLING.

- Miner's Pocket Book, Lock, pp. 209, 210. Tables.
- RELATIVE COSTS OF LARGE AND SMALL DRILLS IN DEVELOPMENT WORK. T A I. M. E., vol. 37, p. 86. Tables.
- Cost of Drilling in Various Kinds of Rock, South Norway. T. I. M & M, vol 7, p. 339. Table.
- ESTIMATING COST OF OPERATING POWER DRILLS Mm. & Sci. Press, vol. 89, p. 387. ½ column.
- Cost of Operating Machine Drills, Portland Mine, Colorado. T A. I. M E., Feb., 1906, p. 1305. Table.
- RATES AND COSTS OF DRILLING. The Witwatersrand Goldfields, p. 382.
- Cost of Machine Drilling in the Rand Mine Witwatersrand Goldfields, p. 382. 5 pages Tables
- COST OF OPERATING DRILLS BY KAF, FIRS AND WHITE LABOR P. C. M & M Soc. S. A., vol 8, p. 219. 2 columns.
- Cost of Drilling on the Rand Mm. & Sci. Press, vol. 94, p. 337. Table.
- COST OF MACHINE DRILLS AND OPERATION AT THE PORTLAND MINE, COLORADO T A. I. M E., vol. 37, p. 97. Table.
- Cost of Drilling Machine Work.

 Min. & Sci. Press, vol. 100, p. 861.

 3 column.
- See also MACHINE OR POWER DRILLS.
- COST OF HAND VS. AIR DRILLS IN MINING NARROW VEINS Coll. Eng & Met Miner, vol. 14, p. 267 14 columns.
- First-Cost and Working Costs of an Ingersoll-Sergeant Heading-Machine Plant. T. I. M. E., vol. 31, pp. 370, 371, 372, 373, 374.
- COST OF MAINTENANCE OF ROCK DRILLS Mm. & Sci. Press, vol. 89, p 422. Table.
- Cost of Electric Drilling. Min. & Sci. Press, vol. 87, p. 39. Table.

- Cost of Operating Electric Drills. Min. & Sci. Press, vol. 89, p. 163. Table.
- COST OF ELECTRIC DRILLING IN DIO-RITE. T I. M & M, vol. 10, pp. 222 and 225.
- Two Records of Costs in Drilling Rock with Electric Air Drills. E. & M. J, vol 88, p 310. 2½ columns.
- Cost of Drilling Coal by Electric Drill. M & M, vol. 17, p 485. Table.
- See also Electric Drills.
- Cost of Churn Drilling E. & M. J, vol 89, p. 1005. ½ column
- Cost of Churn Drilling at Miami, Arizona. M. & M, vol. 30, p. 752. † column. Table
- Costs of Churn Drilling at Silver-Bell, Arizona E & M. J., vol. 90, p 851. Table
- Cost of Churn Drilling at Ely, Nevada. M & M, vol. 29, p. 527. † column.
- COST OF CHURN DRILLING AT ELY, NEVADA. M & M, vol. 29, p. 81. Tables.
- COST OF DRILLING BY CHURN-DRILL, IN ILLINOIS OIL FIELD Min & Sci. Press, vol 99, p 616. ½ column.
- COST OF CHURN AND DIAMOND DRILL-ING IN WISCONSIN. E. & M J, vol. 81, p 1233.
- Cost of Rope Drilling. Second Geol Sur Pa., AC, p. 39.
- COST OF PROSPECT BORING BY ROPE SYSTEM Miner's Pocket Book, Lock, p. 136. Tables.
- SPEED AND COST OF SPRING-POLE DRILLING Sch. Min. Quart., vol 16, p. 21. 2 pages. Tables.
- COST OF DRILLING 15- TO 20-FOOT HOLES BY CHURN DRILL: 2 Men Operating Mm. & Sci. Press, vol. 91, p. 3.
- Cost of Opening Oil Wells in Eastern Illinois. Min. & Sci. Press, vol. 99, p. 680. Table.

- Cost of Drilling Rig for Oil-Well Work. Min & Sci. Press, vol 101, p 776. 2 columns Tables.
- COST OF CASING FOR OIL-WELL DRILL-ING. Min & Sci Press, vol. 101, p. 776 Tables.
- PROSPECT DRILLING IN THE KANSAS
 GAS FIELDS FOR HOLES 1200 TO 1500
 FEET DEEP. E. & M. J., Sept. 12,
 1903, p. 396 ½ column.
- Cost of Prospect Drilling at Joplin. M. & M, vol. 29, p. 7. ½ column.
- COST OF DRILLING BY CHURN DRILL AT GALENA, KANSAS. Univ Geol. Sur. of Kans., vol. 8, p. 340. 12 pages.
- Cost of Churn Drilling in the Mesabi Iron Range, Minnesota. E. & M J., vol. 75, pp. 896 and 897.
- See also Churn Drills and Drilling, and Prospect Drilling.
- Cost of Operating a Steam Prospect Drill in Alaska. E. & M. J, vol. 86, p. 220. Table.
- Cost of Drilling for Dredging. Min. & Sci. Press, vol. 87, p. 39. Table
- Cost of Diamond Drilling in Western Australia by Ton and Ounce. M & M, vol. 24, p 175. Tables.
- Cost of Diamond Drilling. E. & M J, vol 81, p 1054 ½ column.
- COST OF DIAMOND DRILLING. Min. Mag., London, vol. 2, p. 390 3
- Schedule of Prices for Bore-Holes: Diamond Drilling T. F I M. E., vol. 1, p. 20. Table.
- COST OF DIAMOND DRILLING, LAKE SUPERIOR. E. & M J, vol 81, p. 236.
- Cost of Diamond Drilling. M. & M., vol. 20, p 244 ½ column.
- Notes on Cost of Diamond Drilling. By J. J. Jordan. M. & M, Feb., 1902, p. 321. $\frac{3}{4}$ column.
- Costs of Diamond Drilling in the Boundary District, British Co-

- LUMBIA By F. Keffer M. & M., vol 28, p. 508. 3 columns.
- Cost of Diamond Drilling. Min. & Sci Press, vol. 75, p. 241.
- DETAILED COST OF DIAMOND DRILL-ING AT BOUNDARY DISTRICT, BRIT-ISH COLUMBIA. M. & M., vol 27, p 177 Tables.
- Note on the Cost of Diamond Drilling. By J. J. Jordan T. I. M. & M., vol. 9, p. 297. 3 pages
- Cost of Diamond Drilling: In Canada, Michigan, and Minnesota T. F C. M. I, vol. 1, p. 206, etc.
- Cost and Time of Drilling Through Different Materials with Diamond Drill (Croton Aqueduct). T A. I M. E., vol. 19, pp. 750, 751, 752, 753, 754.
- Cost of Diamond Drilling in West Africa. T. I M. & M, vol. 12, pp. 319 and 320.
- Cost of Diamond Drilling in the Transvaal, South Africa. T. I. M. & M., vol. 6, p. 172, etc.
- COST AND RESULTS OF GEOLOGICAL EXPLORATIONS WITH THE DIAMOND DRILL IN THE ANTHRACITE REGIONS OF PENNSYLVANIA. By L A. Riley T. A I M. E., vol. 5, p. 303
- COST OF BORING BY DIAMOND DRILL IN NOVA SCOTIA. E. & M. J, vol. 19, p. 272. ½ column.
- Cost of Diamond Drilling. Labor, Reaming and Casing, Carbons, Cost of Bit per Foot, Water, and Fuel Diamond Drilling. G. A. Denny, pp. 84, 86, 87, 92 and 93.
- COST OF DIAMOND DRILLS AND SUP-PLIES. Diamond Drilling G. A. Denny, p. 154.
- COST OF DIAMOND DRILLING WELL-BORING. C. Isler, pp. 170, 171 and 172.
- Cost of Diamond Drilling. M. & M., Dec, 1901, p. 207. ½ column.
- Cost of Diamond Drilling. Second Geol. Sur., Pa., AC, p. 42. Tables.

- Cost of Diamond Drilling, Western Australia Gold Min. & Mill., W. Aus., pp. 155, 156.
- Cost of Diamond Drilling on the Rand. Witwatersrand Goldfields, pp. 147 and 148. Table
- COST OF DIAMOND DRILLING Min. & Sci. Press vol 90, p 8. 2 col-
- Cost of Diamond Drilling in Mesabi Iron Range E. & M. J., vol 75, pp. 896–897.
- COST OF DIAMOND DRILLING AT MOUNT BISCHOFF TIN MINES. Tin Deposits of the World, p. 172.
- COST OF DIAMOND DRILLING: New South Wales, South Africa, Mexico, Etc. Miner's Pocket Book, Lock. pp. 141, 142. 2 pages.
- DIAMOND DRILLING IN LAKE SU-PERIOR AMYGDALOIDAL ROCK, SAND-STONE AND CONGLOMERATE 1904 E. & M. J, vol. 81, p 236.
- COST OF DRILLING WITH TERRY ROTARY SHOT DRILL. E. & M J, vol. 89, p 1157. \(\frac{2}{3}\) column.
- Cost of Diamond, Calyx and Hand Drilling. Min. & Sci. Press, vol. 82, p. 239.
- Cost of Plant, Drilling, Etc. Min. & Sci. Press, vol 81, p. 404.
- Cost of Plant, Drilling, Etc Min. & Sci. Press, vol. 82, pp. 59, 239, 252 and 281. Table.
- COST OF WASH DRILL BORING ON THE GREAT LAKES AND ATLANTIC SHIP CANAL SURVEY. Eng-Cont., vol. 27, pp. 108, 132. 4 columns.
- COST OF DIAMOND DRILL BORING IN THE COLORADO COAL MEASURES. Eng.-Cont., vol. 27, p. 112. 2 column.
- COST OF DIAMOND DRILLING IN BA-SALT AND SOFTEE SEDIMENTS, AUS-TRALIA. Min. Mag., vol. 11, p. 139.
- Cost of Diamond Drilling. J. M. Soc. N. S., vol. 9, pp. 80, 87, 88, 89, 92. 4 pages.

- Cost of Diamond Drilling, Eng-LAND. P. C M., vol. 1, p. 123. Table
- Cost of Diamond Drilling in West Africa T. I. M. & M, vol. 12, p 320. Table.
- Note on Cost of Diamond Drilling. By J J Jordan. T I. M. & M., vol. 9, p. 297 4 pages.
- Cost of Diamond Drilling in Coal. Measures By W. F. Murray. E. & M J, vol. 83, p. 384. 2 columns.
- PROSPECTING ANTHRACITE MINES BY BORE HOLES. E. & M J, vol. 88, p. 258.
- COST OF DIAMOND DRILLING IN THE ANTHRACITE FIELDS, PENNSYLVANIA. The Anthracite Coal Industry, Roberts, p 24 1 page.
- Cost of Core Boring. M. & M., vol 31, p. 323. ½ column. Table.
- Cost of Diamond Drilling Min. & Sci. Press, vol. 95, p 461. 1½ columns
- THE COST OF DIAMOND DRILLING FOR COAL IN PENNSYLVANIA By E E. White. E. & M. J, vol. 87, p. 649. 2½ columns Tables.
- NOTES ON THE COST OF DIAMOND DRILLING IN THE BOUNDARY DISTRICT. By F Keffer. J C. M. I, vol. 11, p. 385. 6 pages.
- Cost of Diamond Drill Boring. Sch. Mines Quart., vol. 16, pp. 21, 23 and 24. Table.
- See also PROSPECT DRILLING.
- Price of Diamonds Min & Sci. Press, vol. 96, p. 32. ½ column.
- DUTY ON DIAMONDS FOR DRILLS. E. & M. J., vol 85, p. 1001 ½ column.
- THE PRICE (COST) OF DIAMONDS. E. & M. J., vol. 80, p 640. 1 column.
- COST OF BLACK DIAMONDS FOR DRILL-ING. Min. & Sci. Press, vol. 89, p. 420.
- COST OF DIAMONDS AND DIAMOND DRILLING PER FOOT IN METAL

- MINING. Ann. Min., Rept. N. S. Wales, 1899, p 20.
- COST OF CARBON (DIAMONDS) PER FOOT IN DRILLING. J. M. Soc. N. S, vol. 9, p. 74 Table.
- COST ANALYSIS OF STONE (DIAMOND)
 CONSUMPTION IN UNDERGROUND
 DIAMOND DRILLING. By B. H
 Case. E. & M. J, vol. 88, p. 420
 2 columns. Table.
- COST OF WEAR OF IRON BIT IN DIA-MOND DRILLING. Min. & Sci. Press, vol 85, p. 173.
- See also DIAMOND AND ROTARY DRILLS.
- Cost of Driving Drifts with the Murphy Air-Hammer Drill E. & M. J., vol. 80, p. 362.
- See also Air Hammer Drills, and Cost of Shaft Sinking.

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- COST OF EARTH AND ROCK EXCAVATION ESPECIALLY FOR RAILROAD WORK. R. R. Construction, Webb, p. 400. Table.
- Cost of Excavating Rock in Large Masses. E. & M. J., vol. 84, p. 205. ½ column. Table.
- COST OF A BLAST AT BINGHAM CANYON AND QUANTITY OF ROCK BROKEN: Open-cut Work. M. & M, vol. 29, p 161. ½ column. I.
- Cost of Shoveling. E. & M. J, vol. 80, p. 160.
- Cost of Loosening and Shoveling: Cost of Plowing, of Picking and of Shoveling. Earthwork and Its Costs. By H. P. Gillette. Chap 3, p 24. 7 pages.
- METHODS AND COSTS OF LOADING DUMP WAGONS WITH SCRAPERS, AND THE DESIGN OF A LOADING PLATFORM. Eng.-Cont., vol 27, p. 36. 3½ columns.
- COST OF HANDLING EXCAVATED MATERIALS: Cost of Dumping, Spreading, Ramming, Rolling, Sprinkling and Trimming. Earthwork and Its

- Costs. H. P Gillette. Chap. 4, p 37. 6 pages.
- Cost of Hand-Shoveling. R. R. Construction, Webb, p. 126
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- COST OF WHEELBARROWS AND CARTS: Rules for Estimating Cost. Earth-Work and Its Costs. By H. P. Gillette. Chap. 5, p. 37. 3 pages.
- Cost of Loosening Soil with Plows. R. R. Construction, Webb, pp. 125, 139. ½ page.
- COST OF LOOSENING SOIL BY PICK.
 R. R. Construction, Webb, pp. 126,
 139 ½ page
- COST OF REMOVING OVERBURDEN AT THE "JAVA" MINE, SPAIN, PER CUBIC YARD IN THE SOLID: Calculating on the Total Quantity Removed During 1891. T. A. I. M. E., vol. 21, p. 92.
- COST BY BUCK AND DRAG SCRAPERS: Two Examples of Cost by Buck Scrapers Three Examples of Cost by Drag Scrapers; Errors of Trautwine's Tables; Rule for Estimating Cost. Earthwork and Its Cost, Gillette, Chapter 7, p. 47.
- Cost of Grading and Trimming an Athletic Field. By D J Hauer. Eng.-Cont, vol. 27, p. 14. 2½ columns
- Cost of Clearing Jungle, etc., in Sumatra. T A. I. M. E., vol. 20, p. 73
- COST OF CLEARING AND GRUBBING LAND AND BLASTING STUMPS. Eng.-Cont, vol. 27, p. 95. 6 columns.
- COST OF CLEARING AND GRUBBING, ESPECIALLY IN RAILBOAD WORK. R. R. Construction, Webb, pp. 395 and 400. Table.
- COST OF STEAM SHOVEL WORK UNDER-GROUND. M & M, vol. 29, p. 575. Tables.
- COST DATA ON STEAM SHOVEL WORK. Eng.-Cont., vol. 27, p. 4. 6 columns.

- Cost of Steam Shovel Work: Especially Loading. R R Construction, Webb, p 127. 1½ pages.
- COST OF STEAM SHOVEL WORK IN PLACER MINE IN ALASKA. Min. & Sci. Press, vol 91, p 178 Table.
- COST OF STEAM SHOVEL EXCAVATING: Output; Power Required and Cost; Cost of Moving; and Rule for Estimating Cost Earthwork and Its Cost, Gillette, Chap 10, p. 70
- COST DATA ON THE CONSTRUCTION OF AN EGG-SHAPED SEWER AT SPRING-FIELD, MASSACHUSETTS Eng.-Cont, vol 27, p 28 1 column.
- METHODS AND COSTS OF CONSTRUCTING A LARGE REINFORCED CONCRETE SEWER AT ST LOUIS, MISSOURI. Eng.-Cont, vol 27, p. 76 4 columns. I.
- GENERAL COSTS OF EXCAVATING IN CROTON AQUEDUCT: Average Cost of Driving a Single Heading; of Excavating Bench T. A. I M. E., vol. 19, p 758
- Cost of Work on the Chicago Main Drainage Canal J. W Soc E, vol. 1, p 227. 19 pages
- THE COST OF HYDRAULIC EXCAVATION:
 Amount of Water Required, Cost of Filling Railroad Trestles by Sluicing; Cost of Dam Filling; and Cost of Placer Gravel Mining. Earthwork and Its Cost, Gillette, Chapter 15.
- Cost of Removing Hell's Gate. E. & M J., vol 40, p. 290. Tables See also Submarine Blasting, and Excavation of Earth, Rock, and Ores, Etc.

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- COST OF BLASTING AT GALENA, KANSAS Univ. Geol. Sur of Kan, vol 8, p. 344. ½ column
- Cost of Blasting in Different Kinds of Rock. E & M. J, vol. 25, p. 273. 1 column
- Cost of Blasting. R. R. Construction, Webb, pp. 126, 144, and 400.

- RELATIVE COST OF MINING WITH AND WITHOUT POWDER, ENGLAND T N S. I. M & M. E, vol. 4, pp 54, 56 Tables.
- METHODS AND COSTS OF BLASTING AND HANDLING BOULDERS. Min & Sci Press, vol 90, p. 86 3\{\frac{3}{4}}\) columns
- COST OF EXPLOSIVES PER TON ORE AT ALASKA-TREADWELL MINES, 1903 E & M J, vol. 78, p 740
- Cost of Blasting on the Rand, Australia and Elsewhere. Miners' Pocket Book, Lock, p 182 1 page
- Cost and Efficiency of Safety Explosives as Compared with Gunpowder By H Hall T. F I. M. E., vol 13, p. 4. 56 pages
- Cost of Explosive Gelatine E & M J, vol 38, p 103. ½ column
- Cost of Gunpowder, England T N S I M & M E, vol. 2, p 156
- COMPARATIVE COST OF COMMON AND GIANT POWDER IN BLASTING. The Mines of the West, Raymond, 1869, pp 35, 37 Tables
- Prices of Powder Min. & Sci Press, vol 48, p 385 d column
- Advance in Powder Min & Sci Press, vol 48, p. 419 ½ column
- Cost of Powder to Montana Coal Miners E & M J, vol 87, p 849 † column
- Cost of Giant Powder Work Tunneling E. & M. J., vol 6, p 73 Table
- GIANT POWDER: Comparative Figures Min. & Sci. Press, vol 18, p 66 † column
- Cost of Dynamite at Butte in Carload and Smaller Lots, in 1902 Min. & Sci Press, vol 85, p 249.
- COST OF DYNAMITE AT KIMBERLEY DIAMOND MINES T N S. I. M. & M. E., vol. 10, p 102.
- Cost of Dynamite on the Rand T. N. S. I. M & M E., vol 10, p. 137.
- Cost of Explosives on the Rand, 1902. Witwatersrand Goldfields, p. 457. Table.

- COST OF EXPLOSIVES ON THE RAND 1895 Gold Mines of the Rand, pp. 247, 248 and 249.
- COST OF EXPLOSIVES AT KIMBERLEY. Gold Min. & Mill. W. Aus., pp 454, 456 and 457
- COST OF EXPLOSIVES, DETONATORS AND FUSE AND AMOUNT USED PER TON OF ORE MINED IN NEW SOUTH WALES, Ann Min Rept., N. S Wales, 1899, p 104.
- COST OF EXPLOSIVES AT THE PORT-LAND MINE, CRIPPLE CREEK, COLO-RADO. T. A I M E, Bethlehem Meeting, Feb, 1906, p 1327 Table.
- Cost of Explosives in Western Australia. Gold Min. & Mill, W. Aus., pp 177, 206, 208 and 214
- COST OF EXPLOSIVE PER TON ORE AT GOLDEN HORSESHOE, WESTERN AUSTRALIA. Gold Min. & Mill, W Aus, p. 616. Table.
- COST OF EXPLOSIVES, WESTERN AUSTRALIA. Gold Min. & Mill, W. Aus., p. 454 Table.
- Cost of Explosives in Tunnel Driving Min & Sci Press, vol. 34, p. 166 ½ column.
- Cost of Explosives in Coal Mining. Entry Work M & M, vol. 19, p. 58. Table
- COST OF POWDER PER TON ANTERACITE MINED IN PENNSYLVANIA
 The Anthracite Coal Industry,
 Roberts, p. 118.
- COST OF POWDER IN THE ANTHRACITE
 COAL FIELDS OF PENNSYLVANIA
 The Anthracite Coal Industry,
 Roberts, p. 133. 3 pages.
- See also Use of Explosives in Mining.
- Cost of Mammoth Blasting. T A. I. M. E., vol. 7, p. 285
- See also Large or Mammoth Blasts.
- COST OF SUBMARINE BLASTING, POET FREMANTLE, AUSTRALIA. Gold Min. & Mill., W. Aus., p. 452.
- See also SUBMARINE BLASTING.

Cost of Flume and Ditch Construction

- Cost of Flume Construction.

 Miner's Pocket Book, Lock, p 61.

 Notes.
- Cost of Flume Construction in Alaska Min & Sci. Press, vol. 71, p. 26.
- Cost of Making Open-Cut Flume: 7 Feet Wide at Bottom by 11,000 Feet Long \$27,000, or \$1 per Cubic Yard. E. & M. J. vol. 76, p 657.
- Cost of Flume and Ditch Construction Min. & Sci Press, vol 74, pp 172, 173. Tables.
- Cost of Flumes. E. & M. J, vol. 75, p. 785. Table; vol. 76, pp. 267-268.
- Cost of Wood vs. Steel Flumes. J. C M. I, vol 6, p. 237.
- Cost of Sluice-Box Construction. Mm & Sci. Press, vol 53, p. 245. Table.
- See also Hydraulic Mining.
- COST OF CONSTRUCTING A CONCRETE CURB AND GUTTER AT OTTAWA, CANADA Eng-Cont, vol. 27, p. 116. 2 columns.
- Cost of Ditching (Kirkpatrick).

 Miner's Pocket Book, Lock, pp. 47,
 48. Tables.
- COST OF DITCHING WITH PLOW AND SCRAPER. Min. & Sci Press, vol. 93, p. 683.
- Cost of Trenching. M. & M., vol. 31, p. 694. Table.
- RATE OF WORKING AND COST OF DITCH CONSTRUCTION Min & Sci. Press, vol. 95, p. 303. Table.
- See also Ditches and Channels, and Hydraulic Mining.

Cost of Fuel

- Cost of Various Fuels. T. A. I. M. E., vol. 40, p. 49. 5 pages.
- COST OF ELECTRICITY AND WOOD IN MINES AND MILLS Min. & Sci. Press, vol 85, p. 104.
- See also Electricity in the Mine.

- COMPARATIVE COST OF WOOD AND OIL FOR FUEL, SUTTER CREEK, CALI-FORNIA Min. & Sci. Press, vol 84, p 35. Table
- COST OF GENERATING HORSE POWER WITH WOOD, COAL, OIL, ETC., ON THE MOTHER LODE E. & M. J., vol. 75, p. 149
- COMPARATIVE COSTS OF FUEL. E & M J., vol 81, p. 180. ½ column.
- COST OF GASOLINE AND ELECTRIC POWER AT GOLDFIELD, NEVADA Min & Sci. Press, vol. 94, p 722.
- See also Testing Fuels and Their Value.
- Cost of Fuel at the Kimberley Diamond Mines. T. N S. I. M. & M. E., vol. 10, p. 108.
- Cost of Fuel on the Rand, 1902 Witwatersrand Goldfields, p. 457. Table
- SELLING PRICE IN ENGLAND OF COAL, PAST AND PRESENT. Coll. Working and Management, p. 23. 7 pages.
- Cost of Coal on the Rand (1895). Gold Mines of the Rand, p 250. 2 pages.
- Cost of Coal in Alaska, the Yukon, Etc. T. A. I. M. E., vol. 36, pp. 490 and 491
- COST OF COAL FOR STEAM-POWER. Kent's Mech. Engrs. Pocket-Book. p 789. ½ page. Table
- Cost of Anthracite Coal. E & M J., vol. 81, p 1051 $\frac{2}{3}$ column
- PRICES OF AMERICAN AND CANADIAN COALS AT WINNIPEG FOR YEARS 1876-1896 E. & M J., vol. 62, p 127. Table
- THE COST AND SELLING PRICES OF COAL AND COKE. E. & M. J., vol. 59, p 145. 1 column
- AVERAGE PRICE OF COAL IN THE SEVERAL DISTRICTS OF NEW SOUTH WALES Ann. Min. Rept, N. S. Wales, 1899, p. 58
- COMPARATIVE COST OF HAND AND POWDERED COAL FIRING. E. & M. J., vol. 81, p. 902. Tables.

- COST OF COAL AND OIL COMPARED. E. & M. J, vol. 76, p. 381.
- COST OF CHARCOAL MADE FROM ONE CORD OF WOOD T. A. I. M. E., vol 16, p. 198.
- GERMAN COAL PRICES. E. & M. J., vol 75, p 717.
- See also The Composition and Characteristics of Coal.
- COST OF COKE T. A. I. M. E., vol. 17, p. 48
- COST OF COKE-MAKING AT THE OLIVER COKE-WORKS, UNITED STATES T. I M E., vol 27, p. 499. Tables.
- COST OF COKE MAKING. E. & M. J., vol. 54, pp. 250 and 268.
- ESTIMATED COST OF ONE BEEHIVE COKE OVEN M. & M, vol 24, p. 5. Table.
- COST OF COKE MADE AT DULUTH, MINNESOTA. T. A. I. M. E., vol. 16, p. 198
- THE MANUFACTURE AND COST OF COKE. F Kocener. E. & M. J., vol. 42, pp. 291, 362, 399, 421 and 452.
- Cost of Producing Charcoal. E. & M. J., vol 40, p 306 3½ columns.
- COST OF OPERATION OF BI-PRODUCT COKE OVENS M. & M, vol. 27, p. 255. Tables.
- COST OF DRAWING COKE FROM OVENS BY MACHINE T. A. I. M. E., vol. 36, p. 359. Table.
- See also Coke: Its Properties and Manufacture.
- COST OF GAS POWER. E. & M. J., vol 84, p. 917. Table.
- Cost of Gas Power T. I. M. E., vol. 15, pp. 331, 334, 335, 338.
- Price of Gas and Coal in England. E & M. J., vol. 82, p. 928.
- Price of Gas Fuel in the Joplin Lead and Zinc District. E. & M. J., vol. 83, p. 965.
- See also GAS FOR POWER, ETC.

- PRICE OF OIL AND NATURAL GAS IN KANSAS CITY, 1906 E & M. J., vol 82, p. 880. 1 column.
- Cost of Oil Fuel for Steam Boilers Min & Sci Press, vol. 75, p 483. d column.
- COMPARATIVE COST OF OIL AND COKE AS A FUEL. M & M, vol 27, p 370. Tables
- COMPARATIVE COST OF OIL AND COAL AS FUEL IN CALIFORNIA. Min. & Sci Press, vol 81, p. 437.
- Cost Crude Oil vs. Steam. By Wm. Magenan Min & Sci. Press, vol. 92, p 346. 1½ columns.
- THE PRICE OF OIL IN CALIFORNIA BY W. Forstner Min Mag, vol. 4, p 300. 3 columns
- FUEL COST OF POWER BY OIL Min. & Sci. Press, vol 84, pp. 231 and 345
- Cost of Producing and Distributing Oil. E. & M J, vol. 83, p 577. 2 columns.
- Cost of Oil vs. Coal as Fuel. E. & M J, vol. 83, p 247. 1 column.
- Cost of Crude Oil Extraction from Shales in France: also other Cost as Distillation, Chemical Treatment, Etc. T F. I. M. E, vol 7, p 187.
- See also Power Generation by Oil. Cost of Briquetting Fuels M & M., vol. 25, pp 365, 366. Table.
- Cost of Fuel Briquetting. T A. I. M. E, vol 41, pp. 265 and 266. Tables.
- PROFITS IN THE MANUFACTURE OF FUEL BRIQUETTES: Cost per ton. E. & M J, vol 77, p. 566. 1 column.
- ESTIMATED COST OF BRIQUETTES AND BRIQUETTING T. A. I. M E., vol. 35, pp. 101, 102, 103, 104, 105, 106, 107, 108.
- Cost of Briquetting in France. E. & M. J., vol. 76, pp. 431, 432. Table.

- Cost of Lignite Briquetting. E. & M J., vol. 82, p 639. Tables.
- Cost of Briquetting Peat, Per Ton. E. & M J, vol. 80, p. 51.
- See also Briquetting of Fuels and Ores.

Cost of Handling and Storing

- Cost of Loading Coal into Cars in Mines. E & M. J., vol 85, p. 815. 2 columns
- Gravel Screen and Loading Appliance Use of Scraper in Loading Wagons Eng.-Cont., vol. 27, p. 44. ½ column. I
- Cost of Handling Ore in Stopes, Rand Mines, South Africa M. & M., vol. 27, p. 188. Table.
- See also Tramming and Mucking
- COST OF THE ERECTION OF A FINGER-CHUTE. Min. & Sci Press, vol 94, p. 794. Table. I.
- See also Chutes for Loading Cars
 and Skips
- COST OF HANDLING RESIDUE AT KAL-GOORLIE Min. & Sci Press, vol. 95, p 370. Table.
- COST OF MINING AND HANDLING COAL TAI.ME, vol. 17, p. 48. See also HANDLING AND STORAGE OF MINERAL

Cost of Haulage

- Cost of Underground Haulage in Pennsylvania Mines. Sch. Mines Quart., vol 2, p. 197. Tables
- Cost of Haulage of Coal in Mines. T F. I M. E, vol. 12, pp. 260, 265, 270, 271, 272, 276, 278.
- COST OF HAULAGE IN ANTHRACITE MINES. Coal Mining Supplement E. & M. J., vol. 88, p. 27. ½ column.
- COST OF HAULAGE: Hand-putting (tramming), Pony, Horse-haulage, and Rope or Chain-haulage. T. F. I. M. E., vol. 13, p. 144. Table.

- COST PER TON MILE OF HAULING COAL IN PENNSYLVANIA MINES. Second Geol. Sur. of Pa., AC, p. 214. Table.
- HAULAGE Cosrs Mule Haulage, and Electric Haulage. M. & M, Mar, 1902, p. 379.
- Cost of Hauling Coal in Alabama Coal Mines. E. & M. J., vol. 54, p. 538
- RELATIVE COSTS OF DIFFERENT
 HAULAGE SYSTEMS: Horse, Tail
 Rope, Electric, Endless Chain, and
 Endless Rope. Coll. Eng & Met.
 Miner, vol. 14, p. 314
- Cost of Systems of Haulage T. F. I. M. E., vol. 4, pp 295, 297, 299, 300, 301, 302.
- Cost of Installation and Operation of Haulage Plant at Stockett, Montana M & M., vol. 19, p. 276.
- Cost of Mine Haulage M. & M, vol. 21, p. 169. ½ column.
- Cost of Haulage in Alabama Gold Mines. E & M. J., vol 55, p. 486.
- Cost of Haulage in the Anthracite Fields: Animal, Compressed Air, Tail-rope and Electric. E. & M. J., vol. 84, p. 163.
- Cost of Haulage on the Rand. Witwatersrand Goldfields, p. 402. 1½ pages.
- COST OF HAULING AND PUMPING ON THE RAND. Gold Mines of the Rand, pp. 259, 264 and 265. Table.
- SECONDARY HAULAGE: Cost of Putting and Driving. By T E. Forster and F. R. Simpson. T. I. M. E., vol. 15, p. 136. 5 pages.
- Costs of Haulage: Maintenance, Wages, Interest and Depreciation. T. I. M E., vol. 15, pp. 137, 138, 139.
- COST OF UNDERGROUND HAULAGE SYSTEMS. T. F. I. M. E., vol. 7, pp. 363, 368

- Cost of Hauling Equipment from Alamosa to Rico, Colorado, in the Early Days. U. S. G. S, 22d Ann Rept, pt. 2, p. 241.
- Cost of Transportation in Drift Mining. Min & Sci Press, vol. 68, p. 165. Table
- See also HAULAGE SYSTEMS.
- Cost of Animal Haulage. E. & M. J, vol. 75, p 331
- ITEMS REGARDING COST OF MULES FOR MINE HAULAGE. E. & M. J, vol. 81, p 669.
- Cost of Animal Haulage in Coal Mines of Tennessee and Alabama. M & M, vol 26, p 102. 4 columns
- RELATIVE COST OF MULE AND ELECTRIC HAULAGE IN COLLIERIES. E. & M. J, vol 81, p. 1102.
- COST OF ANIMAL HAULAGE UNDER-GROUND T. F. I M. E, vol. 13, p 119.
- See also Animal Haulage.
- COST OF MULE AND ELECTRIC HAULAGE E. & M. J, vol. 82, p 976. Tables.
- Cost of Installation of Mule and Electric Haulage in Mines. E. & M. J, vol 83, p 530. Tables.
- COMPARATIVE COST OF MINE HAULAGE BY MULES AND ELECTRIC LO-COMOTIVES. Eng.-Cont, vol 27, pp. 95, 138 2½ and 3 columns.
- Cost of Installing an Electric Haulage Plant T. L. S I M. E. vol. 4, pp 16 and 22.
- COST OF STEAM AND ELECTRIC HAULAGE E. & M J, vol. 37, p. 292. 12 columns.
- COST OF HAULAGE BY ELECTRIC MOTORS VS MULES. Miner's Pocket Book, Lock, p. 117. Tables.
- Cost of Electrical Haulage Miner's Pocket Book, Lock, pp. 283, 284, 285 and 294
- COST OF ELECTRIC LOCOMOTIVE HAULAGE AT THE 1870-FOOT LEVEL, SHAM-ROCK 1 AND 2 COLLIERIES, GERMANY. E & M J., vol. 89, p. 1238. Table.

- COST OF ELECTRIC HAULAGE AT PLEASLEY COLLIERY. T. F. I. M. E, vol. 12, p 634.
- COST OF ELECTRIC MOTORS, DYNAMOS AND CABLE. Miner's Pocket Book, Lock, p. 118. Table
- Cost of Electric Traction J W. Soc. E., vol. 1, p. 762 Table
- COST OF ELECTRIC- AND MULE-HAUL-AGE IN COAL MINES. T. A I M. E., vol. 19, p 281.
- COST OF ELECTRICITY, MULE AND TAIL-ROPE HAULAGE. T A. I. M. E, vol. 18, p. 418.
- Cost of Mine Haulage. E & M J, vol. 74, p. 407.
- COST OF ELECTRIC- VS WIRE-ROPE HAULAGE T F I M E, vol 7, pp 584, 585
- Cost of Mine Trolley Wiring. M. & M., vol. 28, p. 453. Table.
- COMPARATIVE COSTS OF TROLLEY AND STORAGE BATTERY HAULAGE Min. & Sci. Press, vol. 71, p. 205. Table.
- Cost of Compressed Air Haulage in a Mine. Min. & Sci. Press, vol. 84, p. 89. ½ column
- See also Electric Haulage.
- Cost of Compressed Air Haulage.
 M. & M., vol. 29, p 518 } col-
- COMPARATIVE COSTS OF COMPRESSED AIR, ELECTRICITY AND MULE HAULAGE. Min. Mag, vol. 12, p 383.
- Cost of Operating Compressed Air Haulage Plant. M. & M, vol. 25, p. 569.
- Cost of Compressed Air Haulage. M. & M., vol. 21, p. 177. 1 column.
- Cost of Compressed Air Motors for Gathering Cars in Mines T. A I M. E., Albany Meeting, Feb., 1903, p. 4. Table
- ESTIMATED COST OF A COMPRESSED-AIR ROAD IN THE UNITED STATES. T. A. I M E., vol. 19, p. 561.
- See also Compressed Air Haulage.

- COST OF TAIL-ROPE HAULAGE. Miner's Pocket Book, Lock, pp. 293, 294. Tables.
- COST OF INSTALLATION, MAINTENANCE AND OPERATION OF TAIL-ROPE SYS-TEM OF HAULAGE E. & M. J, vol. 74, p. 679.
- Comparative Costs of Haulage by Chains and Wire Rope. E & M. J., vol. 33, p 278 Table.
- COST OF OPERATING UNDERGROUND ROPE HAULAGE IN THE COAL MINES OF THE RHUR DISTRICT. Gluckauf, 1900, p. 141.
- Cost of Haulage by Gasoline Motors and by Mules. M. & M., vol. 31, p. 630. Table.
- See also GASOLINE MOTORS.
- COMPARATIVE COST OF LOCOMOTIVE AND MULE HAULAGE. E. & M. J, vol 6, p. 154. Tables.
- Cost of Locomotive Haulage. E. & M. J., vol. 75, p. 331.
- COST OF HAULAGE BY LOCOMOTIVES AND MULES. Second Geol. Sur. Pa, AC, p. 222 Tables.
- See also STEAM LOCOMOTIVES.
- COST OF VERTICAL AND INCLINED EQUIPMENT. T. I. M & M, vol 11, plate 79.
- Cost of Operating a Combined Gravity and Power Hoist System in Tennessee. M & M., vol. 19, p. 534.
- WORKING AND MAINTENANCE COSTS, FOR ENGINE PLANE, ENGLAND, 1880–83. T. N. S. I. M. & M. E., vol. 6, p. 107 Tables
- METHOD OF ASCERTAINING MAINTE-NANCE COST PER MILE OF ENGINE PLANE PER YEAR T. N S. I. M. & M. E, vol. 6, p 109.
- See also HAULAGE ON INCLINES.
- COST OF ENGINE PLANE TRACK, ENG-LAND, 1880-'83 T. N S. I. M. & M. E., vol 6, p 107. Table.
- COST OF TRACK LAYING IN AN ENTRY OF GIVEN LENGTE. M. & M., vol. 19, p. 474. Table.

- COST OF WOODEN AND METAL TRACK FOR MINES E. & M. J, vol 75, p. 331.
- See also MINE ROADS AND TRACKS.
- COST OF CHECK BLOCKS ON MINE HAULAGE TRACKS. T. N. S I. M & M. E, vol 8, p. 205 also 206. Table.
- COST OF MINE CARS. M & M., vol 25, p. 458. Table.
- HAULAGE COST OF NEW HOUSE TUN-NEL, IDAHO SPRINGS, COLORADO. M. & M., vol. 27, p. 73, also p. 74.
- COST OF INSTALLATION AND OPERA-TION AT SEVERAL EUROPEAN TUN-NELS Min. & Sci. Press, vol. 48, pp. 322, 323. Tables.
- TUNNEL ROYALTY (COMSTOCK). Min. & Sci. Press, vol 62, p. 104. \$ column.

Cost of Hoisting

- Cost of Hoisting. E. & M. J, vol. 74, p. 407.
- Cost of Winding at Collieries. By W C Mountain. Min. Mag, vol 13, p 229 7½ columns
- Cost of Hoisting. The Witwatersrand Goldfields, p. 268. 3 pages.
- COST OF HOISTING ORE IN QUEENS-LAND T. I. M. E., vol. 21, p. 390 Table.
- Cost of Hoisting T. I M. & M, vol. 11, p. 147. Table.
- ECONOMY IN RAISING AND LOWERING MEN IN MINES. Calculations. Min & Sci. Press, vol. 18, p. 307. ½ column.
- Economy in Winding Engines E. & M. J., vol. 33, p. 132. $\frac{2}{3}$ column.
- COMPARATIVE COST OF HOISTING BY THE CAGE-CAR AND TUB SYSTEMS IN TWO WISCONSIN ZINC MINES. Eng.-Cont., vol. 27, p. 105. 4 columns
- Cost of Hoisting in the Wisconsin Zinc Mines. E. & M. J., vol. 83, p. 380 1½ columns.

- COST OF HOISTING AT GALENA, KANSAS. Univ. Geol. Sur. of Kans., vol 8, p 350 1 page
- Costs of Operating Hoists, Joplin District, Missouri. Min Mag, vol. 10, p. 263 2 columns
- Cost of Hoisting on the Rand. Witwatersrand Goldfields, pp. 268 and 298. Tables.
- COST OF HOISTING AT PORTLAND MINE, COLORADO. T A. I. M. E, vol. 37, p. 97. Table
- Cost of Hoisting at the Port-LAND Mine. T. A. I. M E., Bethlehem Meeting, Feb , 1906, pp. 1305, 1326, 1327. Tables.
- Cost of Operating a Combined Gravity and Power Hoist System in Tennessee. M. & M, vol. 19, d. 534.
- COST OF VERTICAL AND INCLINED EQUIPMENT. T. I M. & M, vol. 11, plate 79.
- See also Methods of Hoisting.
- COST OF ROPE PER TON ORE TREATED, WESTERN AUSTRALIA Gold Min. & Mill, W. Aus., p 456 Table.
- Cost of Different Kinds of Rope per Ton Hoisted. T I M & M, vol 11, p. 172. 1 page.
- Cost of Lang Lay Ropes T. I M. E., vol. 30, p 568. Table.
- RELATIVE ECONOMY (COST) OF ALOR AND WIRE ROPES FOR MINES E. & M. J., vol. 18, p. 100. ½ column.
- Cost of Rope Per Ton Hoisted T. I M & M, vol. 11, p. 291.
- See also Ropes, Chains, Couplings, Etc., and Kinds of Wire Rope.
- Cost of Electric Hoisting in the Anthracite Fields. E. & M. J, vol 84, p 886
- COST OF ELECTRIC WINDING ON THE CONTINENT. T. I. M. E., vol 31, p 281. Table
- COST OF ELECTRICAL WINDING. T. I. M. E., vol 31, pp. 333, 334, 335, 336, 337, 338, 339, 341, 342, 343, 344, 345, 346, 347.

Cost of Installation and Expense of Operating Electrical Hoists. E. & M. J., vol. 83, p. 898. 5 columns.

See also Electric Hoisting.

Cost of Air Lift (Hoist) Min. & Sci. Press, vol. 73, p. 30 Table.

Cost of Pneumatic System of Hoisting T. A. I. M. E, vol. 19, p 120.

See also PNEUMATIC HOISTING.

Cost of Hydraulic Mining

Cost of Hydraulic Mining Sch. Mines Quart., vol. 3, p. 89. Table.

COST OF HYDRAULIC SLUICING IN AUSTRALIA T. Au. I M. E., vol 12, pp 38, 39, 40 and 41.

Cost of Tin Sluicing in Tasmania M & M., vol. 31, p. 314. Table.

METHODS AND COSTS OF GRAVEL AND PLACER MINING IN ALASKA. By C. W. Purington. U. S. G. S., Bull. 259, p. 32. 14½ pages.

Cost of Working Frozen Gravel in Alaska T I M. & M, vol. 9, p. 186. ½ page.

Average Cost of Mining on the Yukon. J.C M.I., vol. 11, p. 549.
† page.

COST OF WORKING AURIFEROUS GRAVEL IN ALASKA AND THE KLON-DIKE. Min Mag., Jan., 1905, pp. 17, 20.

GRAVEL-MINING COSTS IN ALASKA AND NORTHWEST CANADA. By C. W. Purington. E. & M. J., Feb. 9, 1905, p. 269. 5½ columns.

COST OF HYDRAULIC MINING IN CAN-ADA. Min. & Sci. Press, vol. 42, p. 136. } column.

Cost of Mining and Milling Alluvial Deposits, British Columbia. Min. & Sci. Press, vol. 87, p. 305.

Cost of Working Alluvial Deposits on the Rand. T. N S. I. M. & M. E., vol. 10, p. 145. Table. COST AND PROFIT OF ALLUVIAL MIN-ING IN OTAGO, NEW ZEALAND. T. A. I. M. E., vol. 21, pp. 451, 468, 469.

See also Hydraulic Mining.

Cost of Labor

MINER'S WAGES Min. & Sci. Press, vol. 33, p 410, ½ column; vol. 34, p 88, ½ column.

REDUCTION OF MINER'S WAGES. Min. & Sci. Press, vol. 34, p. 118. 1½ columns.

The Miner's Wages Question Min. & Sci. Press, vol. 34, p. 136, $\frac{1}{3}$ column; p 152, $\frac{1}{2}$ column.

FORCE ACCOUNT COSTS. Min & Sci. Press, vol. 101, p 638. 1½ columns. Tables.

METHODS OF PAYING MINER'S WAGES. By J. Daniels. E. & M. J., vol. 84, p. 358 3½ columns.

LABOR COST FOR A CROSSING AND IN-CLINE. T. N. S I. M. & M. E., vol. 6, p. 198. Table.

LABOR COST FOR AN INCLINE. T. N. S I M. &. M. E., vol. 6, p. 196. Table.

"MINERS' WAGES IN MEXICO." Min. & Sci. Press, vol. 85, p 73. 1\frac{1}{2} columns.

INCREASED COST OF LABOR AND MA-TERIAL. E & M. J, vol. 82, p. 627. ½ column.

THE HOMESTEAD COMPROMISE WAGE SCALE, AND COMPUTED WAGE EARNINGS. E. & M. J., vol. 48, p. 48. 12 columns.

MINER'S WAGES AND LOW GRADE ORES. Min. & Sci. Press, vol 42, p. 134. 2½ columns

LABOR AND TONNAGE CHART AS AIDS IN REDUCING COSTS. By C. T. Rice E. & M. J, vol. 90, p. 754. 5 columns. D.

Cost of Labor on the Rand. By E. P. Rathbone. Mm. & Sci. Press, vol. 94, p. 466. 2 columns.

- COST OF LABOR ON THE RAND. Gold Mines of the Rand, p. 252. 6 pages
- COST OF LABOR ON THE RAND. P. C. M. & M. Soc. S. A, vol. 9, p. 225 3 columns.
- LABOR COSTS ON THE RAND. Witwatersrand Goldfields, p. 449. Table.
- LABOR COST IN THE PILGRIM'S REST MINES. P C. M. & M. Soc. S. A, vol. 9, p. 299. 1 column
- LABOR COSTS AT THE KIMBERLEY MINES. T N S I. M & M E, vol. 10, p. 105.
- LABOR COST ON THE RAND T N S I M & M. E, vol. 10, p. 137.
- SCHEDULE OF PRICES OF LABOR PER SHIFT, THE RAND MINES. T. A. I. M. E, vol 39, p. 429 Table
- COST OF LABOR, TIMBER AND HAULAGE AT THE TURKEY HEAVEN GOLD DISTRICT, ALABAMA. E. & M J., vol. 55, p 486.
- Labor Costs in the Alabama and Georgia Goldfields T. A. I M E, vol. 26, p. 472. Table.
- LABOR COST IN TUNNELING IN THE ALABAMA GOLDFIELDS. E. & M J, vol. 55, p. 486.
- LABOR COST AT BRILLIANT COAL MINES, ALABAMA (1906) T. A I. M E, vol 37, p. 490. 1 page.
- LABOR COST ON THE YUKON IN 1896. U. S. G. S, 18th Ann. Rept, pt 3, p. 387.
- Cost of Labor at Bisbee Copper Mines, Arizona. M & M, vol. 27, p. 293. ½ column
- LABOR COST IN THE DEEP ALLUVIAL WORKINGS, AUSTRALIA. T I. M & M, vol. 7, p. 114. Table.
- Cost of Labor in Western Austra-Lia. Gold Min & Mill, W Aus, pp. 455, 457, 460, 461, 464, 465, 606 Tables.
- COST OF LABOR PER TON ORE AT THE GOLDEN HORSESHOE, WESTERN AUS-TRALIA. Gold Min. & Mill., W. Aus., p. 616. Table.

- LABOR COST AND DISTRIBUTION IN MILLING, AUSTRALIA P. C M & M Soc S A, vol. 8, p 239 1 column.
- Labor Costs in Western Australia. M & M, vol. 25, p 42 Table.
- COAL MINERS' WAGES IN BOHEMIA.
 Min & Sci. Press, vol. 87, p 154.
 Table.
- WAGE SCALE AT COBALT M & M., vol 27, p. 488.
- WAGE SCALE ROSSLAND, BRITISH COLUMBIA Min & Sci. Press, vol. 90, p. 140. Table
- Labor Costs in Mines of Nova Scotia. Min & Sci Press, vol 91, p. 290.
- Labor Cost in a California Gold Mine. Ore Dressing, Richards, vol. 2, p 1131. Table.
- WORK AND WAGES IN CALIFORNIA. Min & Sci Press, vol. 30, p. 114. $5\frac{1}{3}$ columns.
- California and Nevada Mining Wages E & M J, vol. 83, p 846. ‡ column
- LABOR COSTAT OROVILLE, CALIFORNIA. E & M J, vol. 78, p 909 Table.
- LABOR COST IN NOVA SCOTIA. Min. & Sci. Press, vol 91, p 290.
- Labor Costs at Almaden Min & Sci. Press, vol. 37, p 392. Tables.
- LABOR COSTS AT CAMP BIRD MINE. Sch Mines Quart., vol. 24, p. 64. Table.
- Labor Cost at Camp Bird Mine, Ouray, Colorado T. A I. M. E, vol 33, p. 526. Table.
- COMPARATIVE RATES FOR LABOR AT THE MINES OF BOULDER AND CRIPPLE CREEK, COLORADO. T. I. M. E, vol. 19, p. 334.
- LABOR COST AT THE PORTLAND MINE, CRIPPLE CREEK, COLORADO. T. A. I M. E, Bethlehem Meeting, Feb. 1906, pp. 1326, 1327. Tables.
- FORMER RATES OF WAGES IN ENG-LAND. Coll Working and Management, p. 34. 10 pages. Table.

- PRESENT WAGES IN ENGLISH COAL MINES Coll. Working and Management, p 43.
- LABOR COST AT WARDNER, IDAHO. Rept. Zinc Comm., Canada, p. 43.
- LABOR COSTS IN A STAMP MILL IN IDAHO Ore Dressing, Richards, vol. 2, p 112 Table.
- Labor Cost in Northern Idaho. Ore Dressing, Richards, vol. 2, p. 1130. Table.
- LABOR COSTS IN THE MALAY PEN-INSULA TIN MINES TIN Deposits of the World, pp. 59 and 64. Table.
- LABOR COST IN TIN MINES OF SPAIN Tin Deposits of the World, p. 151 Table.
- LABOR COSTS IN DRESSING TIN ORES AT MOUNT BISCHOFF. Tin Deposits of the World, p. 172.
- Wage Scale in the Joplin Region M. & M, vol. 28, p 156. Table.
- LABOR COSTS, MISSOURI LEAD AND ZINC MINES. Ore Dressing, Richards, vol 2, p. 1129. Table.
- LABOR COSTS IN THE LEAD AND ZINC MINES OF THE JOPLIN DISTRICT. Univ. Geol. Sur of Kans., vol. 8, pp. 350, 377, etc. Table.
- LABOR COSTS IN THE JOPLIN DISTRICT, MISSOURI E. & M. J., vol. 84, p 1119. ½ column.
- COST OF LAKE SUPERIOR AND MONTANA COPPER. By J. R. Finlay E. & M. J, vol 85, p. 856. 132 columns.
- LABOR COSTS AT THE BALTIC MILL, LAKE SUPERIOR. T. I. M. & M., vol. 14, p. 193. Table.
- WAGE SCALE IN MONTANA COAL MINES. M. & M., vol. 27, p. 484. Table.
- LABOR COSTS IN COAL MINES OF MONTANA, 1908. E. & M. J., vol. 85, p. 1058. 1 column. Table.
- COST OF MINE LABOR, BUTTE, MONTANA. M. & M, vol. 21, p. 158. Table.

- COST OF MINE LABOR, ROSSLAND, BRITISH COLUMBIA M & M., vol. 21, p. 367. Table
- COST OF HAULAGE SYSTEM EMPLOYED AT THE COTTONWOOD MINE, MONTANA. M. & M, vol. 19, p. 276. Table.
- LABOR COST AT THE NEW SODDY COAL COMPANY, TENNESSEE HAULAGE SYSTEM. M. & M, vol. 19, pp. 534, 535.
- LABOR COST, KELLY, NEW MEXICO. M. & M., vol. 27, p 52.
- COST OF LABOR IN THE NEW YORK HEMATITE MINES. E. & M. J, vol. 82, p 555. \(\frac{2}{3}\) column.
- COST OF LABOR AND SUPPLIES IN DRIVING DRIFT AT GOLDFIELD. E. & M. J., vol. 90, p. 1246. 1 column. Table.
- Labor Costs at the Combination Mine. Min. & Sci. Press, vol 95, p. 437. Table.
- WAGE SCALE AT TONAPAH, 1906. E. & M. J., vol. 82, p. 247. ½ column.
- Labor Costs in Eastern Oregon. M. & M., vol. 19, p. 15.
- How Colliers Were Paid by Our Great-Grand-Fathers. Coll. Eng, vol. 8, p. 68. ½ column.
- COST OF HOUSE RENT TO MINERS IN THE ANTERACITE COAL FIELDS OF PENNSYLVANIA: Basis of Fixing Charge. The Anthracite Coal Industry, Roberts, p. 130. 4 pages.
- Labor Costs: Wages in the Anthracite Coal Fields. The Anthracte Coal Industry, Roberts, p. 108. 20 pages.
- THE COST OF LIVING: Anthracite Coal Miners. E. & M. J., vol. 74, p. 709.
- Labor Costs in Pennsylvania Mines. Rept. Inspr. Mines, Pa., 1878, p. 232, 253, 254, 255, 256, 257; 1879, pp. 324, 325 and 1880, pp 248, 249. Tables.
- LABOR COSTS IN THE IRON MINES OF SCANDINAVIA. T. I. M. & M, vol. 13, p. 500. Table.

- Cosr: Wages Earned Per Day at Cabezas del Pasto Mine, Spain. T A. I. M. E., vol. 21, p 101
- LABOR COST PER TON COAL, MON-TANA. M. & M., vol 19, p. 276. Table
- LABOR COSTS AT THE REDJANG LEBONG MINE, SUMATRA. T. I. M. & M, vol. 16, p. 46. Table.
- WAGE SCALE AT BINGHAM, UTAH. M. & M., vol. 28, p. 108.
- WAGE SCALE AT THE DALY-JUDGE MINE, UTAH. M. & M, vol. 28, p. 35. Table.
- LABOR COSTS IN VENEZUELA. T. I. M. & M, vol. 9, p. 108 Table.
- LABOR COSTS IN WISCONSIN ZINC FIELDS. E. & M J., vol. 81, p. 1235.
- Cost of Feeding Coolies and Kaffres. T. A. I. M. E, vol. 39, p. 569 3 pages.
- THE COST OF LIVING AT JOHANNES-BURG. By T. L. Carter. E. & M. J., vol. 75, p. 895 1½ columns.
- WAGES OF MINERS ON THE CONTINENT. E. & M. J., vol. 51, p. 445.
 THE COST OF LIVING. Min. & Sci.
- Press, vol. 93, p. 333. 2 column.

 LABOR COSTS OF THE MOUNT WOOD

 AND TOP MILL TUNNELS. J. W.
- Soc. E, vol. 2, pp. 60, 61. Tables.

 Cost of Labor in Drift Mining.

 Min. & Sci. Press, vol. 68, p. 165.

 † column.
- See also Labor in Mines, and Miner's Wages.

Cost of Lighting

- Cost of Illumination in Western Australia. Gold Min. & Mill., W. Aus., p. 185. 1 page.
- Cost of Candles, Western Australia. Gold Min. & Mill., W. Aus., pp. 454, 456, 461, 462. Table.
- Cost of Lighting by Candles. Miner's Pocket Book, Lock, p. 344.
 Table.
- COST OF CANDLES ON THE RAND, 1902. Witwatersrand Goldfields, p. 458. Table.

- PROPER ALLOWANCE OF CANDLES PER SHIFT. Min & Sci. Press, vol. 85, p. 202.
- Cost of Candles. Min. & Sci. Press, vol 85, pp. 264 and 292
- See also CANDLES, ETC.
- Cost of Lighting by Electricity.

 Miner's Pocket Book, Lock, p. 342.

 2 pages.
- COMPARATIVE COSTS OF ILLUMINANTS: Electricity, Gas and Paraffin T. N. S I M & M. E., vol. 10, p. 32. Table
- Cost of Use of Sussmann Electric Miner's Lamp. T. I M. E, vol. 21, p. 193. Table.
- COST OF MAINTAINING EACH ARC LAMP IN NEW YORK CITY HAS BEEN FIGURED TO BE \$168.94; OF EACH INCANDESCENT LAMP \$29 00 PER YEAR. E. & M. J., vol 79, p 489.
- Cost of Installation, Operation, and Maintenance of an Electric Lighting Plant for a Mine. Coll. Engr, vol 9, p. 162. Tables.
- COST OF LIGHTING A FACTORY WITH INCANDESCENT LAMPS, COMPARED WITH GAS. E. & M. J., vol 38, p. 380.
- See also Electricity for Mine Lighting
- Cost of Operating Acetylene Mine Lamps. E. & M. J., vol. 72, p. 466.
- Cost of Acetylene Light for Mines. E. & M. J., vol. 83, p. 95.
- See also ACETYLENE GAS FOR MINES.

Cost of Maintenance and Depreciation

- DEPRECIATION OF MINING PLANTS. Min. & Sci. Press, vol. 89, p. 187. 11 columns.
- See also Amortization and Depreciation.

Cost of Metallurgical Treatment

Cost of Metallurgical Works. By W. R. Ingalls. E. & M. J., vol. 90, p. 14. 3 columns.

- THE NEW SMELTING RATES IN COLO-RADO. E. & M. J., vol. 64, p. 696. 1 column.
- SMELTER RATES FOR WESTERN ORES: Gold, Silver, Copper and Lead. M. & M., vol. 27, p. 220. 1 column.
- SMELTING RATES CLEAR CREEK VAL-LEY MINES, COLORADO, 1905. Min. & Sci. Press, vol. 91, p. 13. Tables.
- SMELTING RATES IN NEVADA. E & M. J., vol. 82, p. 1079. ½ column.
- SMELTING RATES ON ORE FROM EUREKA, NEVADA. E. & M. J., vol. 85, p. 1143. ‡ column.
- SMELTING RATES IN MEXICO. By T. Chase. E. & M. J., vol. 89, p. 270. 1½ columns.
- SMELTING CHARGES. Min. & Sci. Press, vol. 84, p. 331. 12 columns.
- SMELTER CHARGES AND MINE PROFITS. Min. & Sci. Press, vol. 84, p. 344, 2 columns; vol. 85, p. 87, 1 column.
- Singapore Smelting-Charges. T. A. I. M. E., vol. 20, p 80.
- Paying by "Unit" Smelter Practice. Min. & Sci Press, vol. 82, p. 259.
- SMELTER METHODS IN COLORADO: Charges. Min. & Sci. Press, vol. 81, pp. 9 and 463.
- SMELTER CHARGE HANDLING IN THE SOUTHWEST By R. B. Brinsmade. M. & M., vol. 27, p. 272. 6 columns.
- COST OF SMELTING SILVER ORE PER TON IN MEXICO. T. I. M. & M., vol. 8, p. 277.
- Cost of the "Diehl" Process. T. I. M. & M., vol. 12, pp. 13, 15, 17, 20, 22, 23.
- THE RIECKEN PROCESS IN WESTERN AUSTRALIA. Gold Min. & Mill., W. Aus., p. 386. 5 pages.
- COST OF THE RIECKEN PROCESS IN WESTERN AUSTRALIA. Gold Min. & Mill., W. Aus, p. 390. Tables
- See also Metallurgical Processes, Theory, Etc.

- COST OF PLANT AND TREATMENT BY THE GREENAWALT ELECTROLYTIC PROCESS. E. & M. J, vol. 90, p. 1066. Tables.
- See also Electro-Metallurgy.
- Cost of Treatment of Sulphide Ore by Phoenix Process. T. I. M. & M., vol. 9, p 396. 2 pages.
- RELATIVE COST OF BRIMSTONE AND PYRITES FOR ACID MAKING. E. & M. J, vol. 37, p. 314. 1 column.
- THE COST OF SMELTING COPPER ORE. By G. F. Beardsley. E. & M. J., vol. 82, p. 397. 2½ columns.
- Cost of Treatment of Low-Grade Copper Ores. T. I. M. E., vol 26, p. 43. Table.
- APPROXIMATE COST OF PRODUCING COPPER FROM ONE AND TWO FURNACES, IN ARIZONA. Sch. Mines Quart., vol. 6, p. 373. Tables.
- CALCULATIONS OF COST OF REFINING COPPER ELECTROLYTICALLY. Min. & Sci Press, vol. 87, p. 254. 1/3 column.
- Cost of Electrolytic Copper Refining. E. & M J, vol. 76, p. 740. Table.
- Cost of Copper, Lake Superior. E. & M J, vol. 43, p. 307. 2 columns.
- COST PER TON OF COPPER MATTE CONVERTING. E. & M. J., vol. 90, p. 464. Table.
- COST AND PROFITS IN PYRITIC SMELT-ING OF LOW-GRADE COPPER ORES. By F. H. Prentiss. Min. & Sci Press, vol. 84, p. 255, 2 columns, p. 268, 3½ columns; p. 282, 4½ columns, I.; p. 295, 3½ columns, I.; p. 308, 3½ columns, I.; p. 323, 4½ columns, I.; p. 333, 2½ columns, I.
- Cost of Refining Pig Copper. T. A. I. M. E., vol. 10, p. 53.
- Cost of Production of Fine Coffee. E. & M. J., vol. 51, p. 347. ½ column.

- COST OF COPPER IN LAKE SUPERIOR E. & M. J., vol 38, p 374. 2 columns.
- See also REFINING OF COPPER.
- Cost of Smelting Copper Ores. T. A. I M. E, vol 15, p. 65
- Costs of Smelting Ore Per Ton, Cananea E. & M J, vol 89, p 315 Table.
- Costs of Lake Superior Smelting. By L. S. Austin. Min & Sci Press, vol 98, p. 392 3½ columns. Tables
- COST OF REFINING LAKE SUPERIOR COPPER E. & M. J., vol 74, p. 370 ½ column
- COST OF COPPER SMELTING IN NOR-WAY E. & M. J, vol. 74, p 377. See also METALLURGY OF COPPER
- Cost of Leaching Copper Ores in the Urals. T.I. M. & M., vol 19, p 230, Tables; pp 259 and 260, Tables.
- COMPARATIVE COSTS OF SMELTING AND CYANIDING ORES IN WESTERN AUSTRALIA Min Mag, vol. 11, p 449
- SMELTING COST AT MINE LE ROI, BRITISH COLUMBIA. E & M. J., vol. 88, p 104 1½ columns Table
- COST OF TREATING THE DRY ORES OF THE SLOCAN. J C M. I., vol. 7, pp. 204, 205, 206
- Cost of Treatment at Kalgoorlie:
 Roasting and Filterpress Work E
 & M. J, vol 76, p. 352 Table
- Cost of Precipitation of Metals T A. I M. E., vol 20, pp. 33, 34, 35.
- Cost of Precipitation and Meliting, Minas del Tajo, Cyanide Plant, Sinaloa. E & M J, vol. 89, p 569 Table.
- See also CYANIDING GOLD, ETC.
- COST OF CHEMICALS AND TREATMENT BY CHLORINATION IN COLORADO E. & M J, vol. 78, p. 670. Table
- Cost of Chloring Smelting. Min & Sci. Press, vol. 87, p. 352
- See also THE CHLORINATION PROCESS.

- Cost of Steel Making in Alabama. E. & M J, vol 46, pp 84 and 125; vol 47, p. 214.
- COST OF PRODUCING ONE GROSS TON OF COKE PIG-IRON. T. A. I M E, vol. 16, p. 200.
- Cost of Producing Pig Iron in the United States By W. B. Philips E. & M J, vol. 72, p. 267. 4 pages
- Cost of Making Charcoal Iron in Texas P. E Soc W. Pa, vol 18, p. 65 Table
- Cost of Producing One Gross Ton of Anthracite Pig-Iron. T. A. I. M. E., vol 16, p. 200.
- Cost of Producing One Gross Ton of Charcoal Pig-Iron. T A I. M E, vol 16, p. 199.
- Approximate Cost of Pig-Iron Produced at Dulute, Cleveland and Chicago. T. A I M. E, vol 16, p. 201
- Classes and Prices of Lake Iron Ores. E. & M. J., vol. 75, p 373. † column
- COST OF PIG IRON MADE FROM LAKE SUPERIOR ORES. By J. R. Finlay E. & M. J., vol. 87, p 739 172 columns.
- Cost of Electric Smellting of Iron Ores. E & M. J, vol 82, p 25. Table.
- See also Metallurgy of Iron and Steel.
- Cost of Extraction of Mercury at Almaden. Min. & Sci Press, vol 38, p. 38 1½ columns
- COST OF TREATMENT OF QUICKSILVER IN THE GUADALCAZAR DISTRICT, MEXICO. T I M & M., vol. 4, p 143.
- See also METALLURGY OF QUICKSILVER.
- Cost of Silver Smelting in Mexico. Min & Sci. Press, vol. 81, p 285. Table.
- COST OF SMELTING AT SIERRA MOJADA, MEXICO. T A. I. M. E, vol 15, pp. 559 and 562.

- See also Metallurgy of Gold and Silver.
- Cost of Zinc Smelting. E. & M J, vol. 83, p. 1248.
- Cost of Smelting Zinc Ores. Rept. Zinc. Comm, Canada, p 28. 5 pages.
- Cost of Electrolytic Plant and Electrolysis in Hoppfner Zinc Process. E. & M. J, vol. 75, p. 752.
- Costs in Zinc Smelting. M. & M, vol. 19, p. 104. Tables.
- Cost of Plant and Operation in the Hoepfner Zinc Process Electrolytic E. & M. J, vol. 75, p 751
- COST OF SMELTING AT JOPLIN, MISSOURI E. & M. J., vol 84, p. 863. Tables.
- See also METALLURGY OF ZINC.
- Cost of Lead Production in the Scotch Hearth. E. & M. J., vol. 80, p 11
- Cost of Lead Smelting in the United States E. & M. J., vol. 74, p 208. 1 column
- Cost of Lead Smelting by the Huntington-Heberlein Process. E & M. J, vol. 80, pp 535, 537, 538 Table
- Cost of Roasting Argentiferous Zincblende and Galena. E & M. J, vol. 47, p. 191. Table
- THE COST OF SILVER-LEAD SMELTING. By W. R. Ingalls. E. & M. J., vol. 86, p 315. 19 columns.
- THE COST OF SILVER-LEAD SMELTING. E & M. J., vol. 86, p. 585. 5 columns.
- SMELTING RATES ON SILVER-LEAD ORES Rept. Zinc. Comm., Canada, p. 72. 2 pages.
- COST OF RUNNING OR OPERATING BARTLETT BAG-PROCESS FOR COL-LECTING LEAD-FUMES. T. A. I. M. E., vol. 18, p. 698.

- See also METALLURGY OF LEAD
 - Cost of Extraction of Sulphur E. & M. J, vol. 37, p. 235 Table.
 - COST OF EXTRACTION OF SULPHUR. Min. & Sci. Press, vol. 48, p. 350. Table.
 - COST OF SMELTING SILICIOUS ORES, MEXICO. Min & Sci Press, vol. 83, p. 5. Table.
- Profits of Smelting in Utah. Min. & Sci. Press, vol 35, p 22. 1 column
- EUREKA AND UTAH COMPARED. Min. & Sci. Press, vol 35, p. 66. ½ column.
- Cost of Smelting the Silicious Ores of the Black Hills. E. & M. J., vol. 69, p. 228
- SMELTER CHARGES AT DENVER AND SALT LAKE CITY. M. & M, vol. 22, p 204. Table.
- Cost of Smelting in Reverberatory Furnaces. Min. & Sci. Press, vol. 89, p. 36.
- Cost of Disposal of Bullion Gold Min & Mill., W. Aus, p. 466. 4 pages
- Cost of Refining and Shipping Crude Bullion. Min & Sci. Press, vol 36, p 93. ½ column
- See also Refining Gold and Silver, Refining of Copper, and Metal-LURGY of LEAD
- Cost of Calcining with the Merton Furnace, at Kalgoorlie. E. & M. J, vol. 76, p. 776.
- THE COST OF ROASTING ORES. E. & M. J., vol. 56, p. 666. 2 columns.
- Cost of Roasting Ore. T. A. I. M. E., vol. 10, p. 34.
- Cost of Roasting Per Ton with the Brown Roaster. E. & M. J., vol. 62, p. 9.
- COST OF ROASTING AND HANDLING ORE. T. A. I. M. E, vol 19, p. 294.
- COST OF ROASTING CONCENTRATES. T. A. I. M. E., vol. 17, p. 318.

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- THE VALUE OF ADVICE: Fees Min. & Sci Press, vol 88, p 326 3 column.
- THE COST OF TESTING A MINE Mm. & Sci Press, vol 81, p 125 2 column.
- See also VALUE OF MINES, ETC.

Cost of Mine and Mill Construction

- Cost of Crib Construction: Brief Method for Preparing Estimates. By G A. M. Liljingrantz. J. W. Soc. E., vol. 4, p. 361 10 pages.
- Cost of Shop Drawings. M & M, Dec., 1901, p. 197. ½ column.
- Cost of Construction Made of Hollow Concrete Blocks. E & M. J, vol 80, p 50
- Cost of Concrete in Building Construction. E. & M. J., vol 76, p. 623
- COST OF CONSTRUCTING A LARGE SHOP BUILDING WITH REINFORCED CONCRETE WALLS AND STEEL ROOF TRUSSES Eng.-Cont, vol. 27, p. 88. 7 columns. I.
- Cost of Mill Construction in the Cosur d'Alene Mills. E. & M J, vol. 88, p 1206. ½ column.
- Cost of Wooden Section and Tool Houses. R R Construction, Webb, p. 400 Table.
- Cost of Erecting Buildings per Ton. E. & M. J, vol. 81, pp. 140 and 313. 2 columns.
- COST OF BLACKSMITH SHOP AND TOOLS, COMPLETE. M & M., vol. 25, p. 458. Table
- Cost of Mining Plant of 2200 Tons Capacity. T. I. M. & M., vol. 7, p. 147. Table.

- COST OF CYANIDE PLANT AND EREC-TION T. I M. & M., vol. 7, p. 148. Table
- COST OF MILL CONSTRUCTION IN RHODESIA Min. Mag., vol. 13, p. 11. Tables.
- DETAILED COST OF MILL CONSTRUC-TION Ore Dressing, Richards, vol. 2, p 1125. Table.
- COST OF CONCRETE VS. BRICK BUILD-INGS. E & M. J., vol. 80, p 50.
- COST OF MILL BUILDINGS Mill Building Construction, p 15. Table.
- Cost of Mill Erection in Wisconsin. E & M. J., vol 82, p. 152. Table.
- Cost of Gold-Mill Construction. T. A I M. E, vol 10, p. 99.
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- COST OF DIFFERENT KINDS OF ROOF COVERINGS Mill Building Construction, p 30
- Cost of Roof Coverings E & M. J, vol. 76, pp. 356, 357. Tables.
- Cost of Tipple, Complete M. & M., vol 25, p. 458 Table.
- Cost of Tipple and Head Frame. E. & M J., vol 74, p. 407.
- COAL TIPPLES: Design and Cost, with Bill of Materials M & M, Oct., 1901, p. 139
- APPROXIMATE COST OF HEAD FRAMES AND TIPPLES E & M J, July 14, 1904, p. 64 Table
- COST OF HEAD-FRAMES AND TIPPLES. E & M. J, vol 79, p. 766
- See also Tipples, ETC
- COST OF STEEL HEAD-FRAME AND BINS AT GWIN MINE Min. & Sci. Press, vol. 88, p 5 ½ column.
- See also HEADFRAMES, ETC.
- COST OF BITUMINOUS COAL BREAKER AND COST OF OPERATIONS. T. A. I. M. E , vol. 35, p. 39. Tables.
- COST OF THE PACIFIC COAL COM-PANY'S BREAKER AT ALBERTA, CAN-

- ADA. E. & M J., vol. 83, p 861. Table.
- COST OF LARGE COAL BREAKER IN CANADA. E & M. J., vol. 82, p. 1023.
- Cost of Breaker Construction and Operation. E & M. J., Apr. 7, 1904.
- See also TIPPLES, ETC.
- Cost of Gold Dredge Construction. Cal Miners' Assoc, Ann, 1906, p. 109. 1 page
- COST OF ERECTING CONCRETE MORTAR BLOCKS T I. M. & M, vol 18, p. 35. Table.
- Cost of Concrete Block Moulding. Eng.-Cont, vol 27, p. 99. Table.
- Cost of Concrete Block Laying. Eng.-Cont, vol 27, p 99.
- COST OF MIXING AND PLACING CON-CRETE. J. W. Soc. E, vol. 2, p. 346. Table.
- Cost of Mine Equipment. Min. & Sci. Press, vol. 90, p 351. 1 col-
- COST OF PORTLAND CEMENT PER BARREL. U. S G. S, Bull. 315, p 244. Table.
- Cost of Moulding Concrete Culvert Pipe Eng.-Cont, vol. 27, p. 68. Table.
- COST OF THE CONCRETE FOUNDA-TIONS OF THE GOLDFIELD CONSOLI-DATED MILL. E. & M. J., vol. 87, p. 1175. 1 column.
- COST OF CONCRETE STAMP FOUNDA-TIONS. Min. & Sci. Press, vol. 94, p. 632.
- See also Foundations for Buildings, ETC.
- COST OF BUILDING A CONCRETE TANK. Min & Sci. Press, vol. 92, p. 146. Table.
- See also Tank for Mine Purposes.
- COST OF CONSTRUCTING SHAFT OREBINS IN WEST AUSTRALIA. Min. & Sci. Press, vol. 90, p. 170. Table.
- See also ORE BINS, ETC.

- COST OF LINING THE LOS ANGELES TUNNEL Concrete Work. Min. & Sci. Press, vol. 100, p. 682 1 column.
- See also TUNNEL SUPPORT.
- Cost of Erecting a 30-Stamp Battery. E. & M J., vol. 37, p 461. Tables.
- Cost of Erecting Two-Sets of Krom 26-Inch Rolls. E. & M. J., vol. 37, p. 461.
- COST OF ERECTING A 30-STAMP BAT-TERY. Min. & Sci Press, vol 51, p. 86. ½ column.
- See also STAMP MILL PRACTICE.
- COST OF CONCRETE MINE BARNS IN THE ANTHRACITE FIELDS. Coal Mining Supplement, E. & M. J, vol. 88, p. 35. Tables
- APPROXIMATE COST OF COLLIERY STABLE. E & M. J, vol. 81, p 745. Table.
- COST OF TIMBER AT ALABAMA GOLD MINES. E. & M. J, vol. 55, p. 486.
- COST OF SUPPLIES IN WESTERN AUSTRALIA. Gold Min. & Mill, W. Aus., pp. 453, 454, 456, 457, 460, 462, 463. Tables.
- Cost of Material in Drift Mining. Min & Sci Press, vol. 68, p. 165. ½ column.
- COST OF SUPPLIES AND MATERIALS FOR MINES AND QUARRIES OF THE UNITED STATES Rept Census Office, Mines and Quarries, 1902, p. 114
- See also QUARRYING METHODS.
- COST OF MATERIALS USED IN THE CONSTRUCTION OF FLUMES, PIPE LINES, CULVERTS, ETC. Notes on the Water Supply in New Countries, pp. 34 and 35 Table.
- See also Cost of Flume Construction
- Cost of Repairs for Wood vs. Iron Coal Cars. E. & M. J., vol. 83, p 626
- See also MINE CARS, ETC.
- Cost of Hand vs. Pneumatic (Hammer) Riveting. Am. Engr. & R. R. Jour., vol. 74, p. 386. Table.

- Cost of Riveting Steel Vats in the Field Gold Min & Mill., W Aus., p. 254
- Cost of Rivering E & M J, vol. 80, p 1220.
- COST OF REFITTING OLD BOILER TUBES FOR OTHER SERVICE M & M., vol 25, p. 545. Table
- DIFFERENCE IN COSTS FOR EQUIPPING AND OPERATING SHAFTS AND SLOPES IN FLAT COAL SEAMS: Cost of Rock Work; Tipple; Head-frame for Shafts and Trestle for Slope; Grading at Foot of Shaft or Slope; of Hosting or Haulage Machinery; Mine Haulage; and Rounding off Vertical Curves, Etc E & M. J., vol. 74, p. 407.
- Cost of Steel and Wood in Mine Shafts. Min & Sci. Press, vol 85, p. 323. 2½ columns.
- Cost of Shaft Guides Oak, Vignol Rails, I-beams, T-iron, Etc., also Cost of Repairs Min. Mag, vol 13, p 227 ½ column.
- Cost of Cage Guides Wood and Steel. T. I. M. E, vol 33, pp. 110, 111, 112, 118. Tables.
- COST OF CONCRETE-LINING TO BRIER HILL SHAFT T. L. S. M I, vol 14, p. 145 Table.
- See also Use of Concrete in Mines, and Shaft Lining.

Cost of Mining

- Cost of Mining T A. I. M. E, vol 10, p 28
- GENERAL MINING COSTS. M. & M, vol. 21, p 159. Table.
- PROFITS AND LOSSES OF TWO METHODS OF MINING. Min & Sci. Press, vol. 19, p. 344. 1 column
- THE CHEAPEST MINING Mm & Sci. Press, vol. 88, p. 313 12 columns
- Cost of Mining. By J R. Finlay. E. & M. J., Feb. 23, 1905, p. 381, 3½ columns.
- Cost of Mining fer Ton Hoisted: Pyrites, Virginia. E & M. J., vol. 80, p 433. Tables.

- Costs and Prices of Mining Operations in Mexico. T. I. M. & M., vol. 6, p 135
- Cost of Mining Operations in Burma Driving Adits, Shafts, Milling and Total Costs. T. F. I. M. E, vol 12, p 511.
- OLD TIME ARIZONA PRICES Min. & Sci. Press, vol. 71, p 121. 2 column. Table
- Variations in Mining Costs By J. R Finlay. Min. & Sci Press, vol. 96, p 22 6 columns Tables
- COMPARATIVE TABLE OF WORKING COSTS FOR GOLD MINES. Min. & Sci. Press, vol. 96, p 23. Table
- Variations in Mining Costs By J B Hastings Min & Sci Press, vol. 96, p. 420 7½ columns.
- Variations in Mining Costs. By T A Rickard Min & Sci Press, vol. 97, p. 28. 4½ columns. Table.
- WORKING COSTS By C E Palmer. E. & M J., vol 88, p. 1032 22 columns. I.
- THE COST OF MINING General Conditions. By J. R. Finlay. E. & M. J., vol 85, p. 795 17 columns.
- Notes on Underground Mining Costs By H F Roche P C M. & M Soc. S. A, vol 7, p 5 8 columns, I; p 119, 1 column; p 141, 3\frac{1}{2} columns
- Cost of Underground Work P. C. M & M Soc. S. A, vol. 10, p 155. ½ column.
- EFFECT OF DEPTH OF MINING UPON COSTS P C M. & M Soc S A., vol. 10, p 414 ½ column.
- Cost of Asbestos Mining. Min. Mag, vol 13, p. 56. ½ column.
- PROFITS IN MINING: Copper Mining Costs. E. & M. J., vol 53, pp. 128, 176, 201, 225, 250; vol 54, p. 123.
- MINING COSTS AT MIAMI, ARIZONA
 M. & M, vol 30, p 83. ½ column
- COST OF MINING OPERATION (COPPER)
 OF THE WALLAROO AND MOONTA,

- Australia. E. & M J, vol. 81, p 1059. Tables.
- Cost of Mining Copper Ores in Shasta County, California. E. & M J., vol. 88, p. 399. 1 column
- COSTS AT THE BRADEN COPPER MINE. By W R Braden. Min & Sci Press, vol. 99, p. 759. 1 column. Table
- GENERAL WORKING COSTS AT THE BRADEN COPPER MINES, CHILE. E. & M. J., vol. 88, p. 1026. 1 column. Table
- GENERAL MINING COST AT THE BRADEN COPPER MINES, CHILE. M. & M, vol. 30, p. 506. Table.
- CONDITIONS AND COSTS OF MINING AT THE BRADEN COPPER-MINES, CHILE. By W Braden T A. I M. E, vol 40, p 743. 3 pages.
- COST OF MINING OPERATIONS: Tyee
 Copper Company, Vancouver Island
 E. & M. J., vol. 80, p. 744. Table.
- ALLOUEZ MINING COMPANY, MICHIGAN. E. & M. J., vol. 51, p. 382. Table
- Cost of Mining at Cananea M & M., vol. 30, p. 29. Table.
- COST AT THE ATLANTIC MINE, LAKE SUPERIOR T I M. & M., vol. 7, p. 20. Table
- Cost of Mining Operations at the Atlantic, Osceola, Central and Kearsarge Mines. E. & M J, vol 55, p. 320. Tables.
- COST OF ALL KINDS OF MINING WORK IN THE LAKE SUPERIOR COPPER MINES. T. A. I. M. E., vol. 6, p. 292.
- COSTS AT THE TAMARACK MINE, LAKE SUPERIOR T. I. M. & M, vol. 7, p 22. Table.
- Costs at the Osceola Mine. By L. S. Austin. Min & Sci. Press, vol 98, p. 893. 1 column. Tables.

- CALUMET AND HECLA COSTS By L. S Austin Min. & Sci Press, vol. 97, p. 847, 3½ columns, tables; p. 872, 2½ columns.
- Working Costs in the Butte Corper Mines. M. & M, vol. 21, p. 158. \frac{1}{3} column.
- Cost of Operations at the Ruth Mine, Ely, Nevada. E. & M. J, vol. 84, p. 721. Table.
- Working Costs on Mines, as Practiced on the Rand: Management. By J. A. Dennison. T. I. M. & M, vol. 18, p 108 24½ pages.
- Working Costs on the Rand and Comparisons with Mines in California. By R. E Browne. Min. & Sci. Press, vol 95, p. 113. 8 columns. I.
- AVERAGE MINING AND MILLING COSTS ON THE RAND. Min & Sci. Press, vol 95, p. 520. Note
- See also Cost of Milling.
- PRESENT MINING CONDITIONS ON THE RAND. By T. H. Leggett. T. A. I. M E, vol. 39, p. 216. 1 page.
- Working Costs at Rand Mines. E. & M. J., vol. 85, p 823. 2 columns.
- COST OF GOVERNMENT REGULATION OF RAND MINES. E & M. J, vol. 85, p. 547. 2½ columns.
- REDUCTION OF WORKING COSTS AT THE RAND MINES. By G A Denny. E. & M. J., vol. 85, p. 547. 12 columns.
- COSTS AND PROFITS ON THE WIT-WATERSRAND. By J. R. Finlay E. & M. J., vol. 86, p. 565. 7½ columns.
- Working Costs in the Barberton Goldfield, South Africa. P. C. M. & M. Soc. S. A., vol. 10, p. 132. 1 column. Tables.
- WORKING COSTS ON THE WITWATERS-RAND E. & M. J., vol. 88, p 593. 3 columns.
- Working Costs in Mines, as Practiced on the Rand. By J A.

- Dennison. Min. & Sci. Press, vol. 97, p. 192. 3½ columns.
- Cost of Mining Operations in South Africa. Min & Sci. Press, vol. 94, p. 311.
- Cost of Working Gold Mines in Rhodesia, South Africa. T. I M. E., vol 31, pp. 67, 76, 80, 86 and 96. Tables.
- WORKING COST OF SOME RAND MINES. P. C. & M. Soc S. A, vol 2, p. 149. 1½ pages.
- Cost of Working a Wide Gold Reef in Rhodesia, South Africa. T. I. M. & M., vol. 12, pp. 293, 300. Tables.
- WORKING COSTS ON THE RAND. P. C. & M. Soc. S. A, vol. 4, pp. 118, 119, 120, 123, 124, 131, 199, 203, 204, 205, 206, 207, 208, 209, 213, 214.
- GENERAL MINING COSTS ON THE WIT-WATERSTAND. T. I. M. & M., vol 7, p. 6. Table
- COST OF WORKING BLANKET DE-POSITS, WEST AFRICA. T. F. I. M E, vol. 2, p. 81
- WORKING COSTS AT THE FERREIRA GOLD MINING COMPANY, 1897. Witwaters and Goldfields, p. 482. 4 pages.
- PROFITS IN MINING, WITWATERSRAND E. & M. J., vol. 81, p. 670. Table
- African Mining Costs Min. & Sci Press, vol 74, p 344. Table
- Cost of Mining on the Witwatersrand. E. & M. J., vol. 76, p. 1005.
- THE COST AND PROFITS OF GOLD MINING IN SOUTH AFRICA. E. & M J., vol. 64, p. 422. 1½ columns
- Cost of Mining in Rhodesia Min & Sci Press, vol 90, p 106 Tables.
- COST OF MINING OPERATIONS IN RHODESIA. Pumping, Winding, Tramming, Compressor and Drills, Sharpening Drills, Sorting and Crushing, Surveying and Sampling. Min. & Sci. Press, vol. 90, pp. 119, 155 Tables.

- COST OF MINING IN GOLD MINE, RHODESIA Stoping and Filling in; Tramming, Winding and Pumping Power T. I M & M, vol 12, p. 300
- See also Cost of Various Opera-
- Cost of Mining and Milling Free Gold Orbs. E & M. J, vol 42, p. 168. 3 columns.
- See also Cost of Milling.
- Cost of Mining in Transvaal. E. & M J., Mar. 23, 1905, p. 565. 1 column.
- Cost of Mining in the Transvaal. Min. Mag., vol. 11, p. 451. Table.
- Cost of Mining on the Rand, South Africa E. & M J, vol. 59, p. 535. 1\frac{1}{3} columns.
- Cost of Mining Operation on the Rand. E. & M. J., vol. 81, p. 851. Table.
- Cost of Mining Operations at Alaska Treadwell Gold Mines. E. & M. J., vol. 81, p. 1251.
- WORKING COST AT THE MITCHELL'S CREEK GOLD MINES, NEW SOUTH WALES. T I. M. & M., vol. 15, pp. 538, 539
- Cost of Mining in Western Australia. Gold Min. & Mill., W. Aus, pp. 195, 197, 205, 206, 207, 208, 209, 212. Tables
- Cost (General) of Mines in Western Australia. Gold Min. & Mill, W Aus, p 473 4 pages
- COST OF MINING OPERATIONS IN KAL-GOORLIE DISTRICT, AUSTRALIA. T. I. M. E., vol 17, p. 363.
- Cost of Mining and Milling at the Greatest Australian Gold Mine. E. & M. J, vol. 42, p. 236. $\frac{2}{3}$ column
- Cost of Mining in Western Australia. Min & Sci. Press, vol. 93, p. 687. Table.
- CHEAP MINING IN AUSTRALIA. Min. & Sci. Press, vol. 78, p. 206. ½ column.

- Western Australian Gold Mining Costs. Min. & Sci Press, vol. 93, p 686. 5 columns.
- COST OF OPERATIONS AT MOUNT MOR-GAN MINE Min & Sci. Press, vol. 88, p. 182 Table.
- Costs of Mining Gold Ore at Sarawak, Borneo. T. I. M. & M, vol. 15, pp. 154, 155, 194.
- MINING COSTS IN THE COBALT DISTRICT, CANADA T. I. M. E, vol. 36, p. 591. 1½ pages. Tables.
- COST OF MINING, HANDLING, ETC., THE LE ROI MINING COMPANY: Tamarack Mining Company. E & M. J., vol. 75, pp 526, 527.
- MINING COST PER TON AT LE ROI, BRITISH COLUMBIA. E. & M. J, vol. 88, p. 104. 1½ columns. Table.
- COST OF MINING OPERATIONS IN THE WAR EAGLE AND CENTER STAR MINES, BRITISH COLUMBIA. M. & M., vol. 21, p. 367. Table.
- MINING COST, WAR EAGLE MINE, BRITISH COLUMBIA Min. & Sci. Press, vol. 90, p 268. } column. Tables
- OPERATING EXPENSES AT THE CARIBOO MINE, BRITISH COLUMBIA. Min & Sci. Press, vol. 88, p. 148. Table
- WORKING COSTS, ROSSLAND, BRITISH COLUMBIA: Shaft Sinking, RISING, Drifting, and Extraction. M. & M, vol. 21, p 367. Table.
- See also Cost of the Various Operations Mentioned.
- COST OF MINING OPERATIONS OF WAR EAGLE MINE, BRITISH COLUMBIA. Min. & Sci. Press, vol. 80, p 262. Tables.
- COST OF MINING OPERATIONS AT CENTRE STAR MINE, ROSSLAND, BRITISH COLUMBIA. Min. & Sci. Press, vol. 87, p. 397. Table.
- COST OF MINING AT THE YELLOW ASTER MINE, MOJAVE DESERT. E. & M. J., vol. 77, p. 154. Table.
- Costs of Mining Operations at the Portland Mine, Colorado. E. & M. J., vol. 82, p. 774.

- Costs of Mining Operations at the Portland Mine, Colorado. T. A. I. M. E., vol. 37, p. 110. Tables.
- COST OF MINING OPERATIONS, CRIPPLE CREEK, COLORADO. Min. & Sci. Press, vol 88, p. 112. Table
- MINING COSTS AT CRIPPLE CREEK COLORADO. E & M. J., vol 76, p 766. 3 columns.
- MINING COSTS AT CRIPPLE CREEK, COLORADO. E. & M J, vol 77, p. 70. 13 columns.
- MINING COST AT THE ALICE MINE, COLORADO M. & M., vol 29, p. 296. ½ column.
- AVERAGE WORKING COSTS PER TON OF ORE TREATED AT THE MAITLAND MILL, SOUTH DAKOTA (CYANIDE PLANT). T. A. I. M. E., vol. 35, p. 635
- COST OF OPERATIONS AT THE REYNOLDS MINE, GEORGIA. T I M. & M., vol. 9, p. 371. Table.
- Cost of Mining in Korba Min. & Sci. Press, vol. 93, p. 80. Table.
- Cost of Mining Operations in the Catorce District, Mexico. E. & M. J., vol. 48, pp. 476, 477.
- Costs at the Esperanza Mine By W. E Hindry. Min. & Sci. Press, vol 100, p. 518. 2\frac{1}{2} columns. Tables.
- MINING COSTS AT EL COBRE E. & M. J, vol. 86, p. 415. Tables.
- WORKING COST AT GUANAJUATO. E. & M. J., vol. 90, p. 723. 1 column.
- GENERAL OPERATING COSTS AT EL ORO AND DOS ESTRELLAS Min. & Sci. Press, vol. 96, p 198. Table.
- CHEAP MINING IN MONTANA. E & M J., vol. 55, p 364. ½ column.
- FORMER COST OF COMSTOCK MINING, COST OF SUPPLIES, ETC. Min. & Sci Press, vol. 77, p. 326. 1 column.
- Cost of Mining at Pioche, Nevada. Sch. Mines Quart., vol. 27, p. 383. Table.

- THE COST OF THE GOLDFIELD MINING BOOM. By A Locke. Min. & Sci. Press, vol. 101, p. 541. 5 columns I.
- Costs of Mining in Nicaragua Min. Mag, vol. 11, p 512 Table
- Cost of Mining Operations in Eastern Oregon Wages, Stoping, Drifting, Raising, and Timbering M. & M, vol 19, p 15
- See also Cost of the Various Operations Mentioned.
- Cost of Mining in Utah Min & Sci. Press, vol 40, p. 86. ½ column
- GENERAL MINING COSTS AT THE SOUTH UTAH MINE. M & M, vol. 31, p 595. ½ column.
- Cost of Mining at the Stormont and Last Chance Mines E & M. J., vol 29, p 60 Table
- COST OF MINE WORK PER LINEAR FOOT, GRANITE MOUNTAIN MINING COMPANY. E & M J, vol. 44, p. 432. Table.
- COST OF MINING QUARTZ PYRITE GOLD DEPOSITS. By J. R. Finlay E & M. J., vol. 86, p. 512. 18½ columns.
- Cost and Price of Michigan Iron Ore: Presidential Address T. L. S. M. I., vol. 6, p. 13 10 pages
- Selling Price of Northern Iron Ores for Season's Delivery — 1899. M. & M., vol. 20, p 100
- Cost Per Ton of Mesabi Iron Ore. Min. & Sci. Press, vol. 67, p 356. Table.
- Cost of Mining Operations in the New York Hematite Mines E. & M. J., vol. 82, p. 555. ½ column.
- COST OF MINING OPERATIONS AND TRANSPORTATION, ETC., OF LAKE SUPERIOR IRON-ORES. T F. I. M. E., vol. 13, p 545. Table.
- See also Cost of Transportation.
- Cost of Operations at Perites Mines. Sch Mines Quart., vol. 7, pp 169 and 166

- Cost of Mining in Sweden. Min. & Sci. Press, vol. 45, p. 358. 1½ columns.
- GENERAL MINING COST PER TON OF ORE IN SOFT AND SHEET GROUND, JOPLIN DISTRICT. M. & M, vol 30, p. 665 Table
- MINING COSTS IN THE JOPLIN DISTRICT. By Doss Brittam. Min. & Sci Press, vol 96, p 526. 17 columns.
- COST OF MINING IN THE LEAD AND ZINC MINES OF MISSOURI M & M, vol 18, pp 394, 481, 482 and 483, vol. 19, p 104.
- OPERATING COSTS IN CŒUR D'ALENE MINES, IDAHO Min & Sci. Press, vol. 89, p 222. Tables.
- COST OF MINING ORE AT BUNKER HILL AND SULLIVAN MINE, IDAHO. Min & Sci Press, vol. 97, p 29 Table
- Cost of Mining, Hand-Picking and Ore Dressing in Lead Mines, Spain. E & M J, vol 73, p. 69.
- See also Cost of Sorting, and Con-CENTRATION.
- GENERAL MINING COSTS IN THE NITRATE OF SODA MINES, CHILE. MIN. & Sci Press, vol 100, p. 182 ½ column.
- MINING COST IN THE CHILE NITER
 MINES E. & M J, vol 90, p 19

 2 column.
- Cost of Mining Operations in the Anchor Tin Mine, Tasmania E. & M. J., vol. 81, p 1240. Table.
- Costs of Mining Operations at Mount Bischoff Tin Mines Tin Deposits of the World, p. 172. Table.
- Costs at the Anchor Tin Mine, Tasmania. E & M. J., vol. 81, p. 1249. 2½ columns.
- COST OF OPERATIONS AT MOUNT BISCHOFF TIN MINES, TASMANIA. T. I. M. & M., vol. 14, p. 227. Tables.
- MINING COSTS IN THE CAPE COLONY TIN WORKINGS P. C. M. & M. Soc. S A., vol. 8, p. 180. Tables.

- MINING COSTS IN RUSSIA: Bogoslovsk Mining Estate. T A. I M. E., vol. 39, p. 279, Tables; p. 288, Tables.
- MINING COST AT THE LORRAINE MINES OF GERMANY AND FRANCE. E & M. J, vol 87, p. 1225. Table.
- GENERAL MINING COST AT BOICZA, HUNGARY. Min & Sci. Press, vol. 100, p. 34 ½ column.
- See also Methods of Mining, Etc.

Cost of Mining and Treatment

- Cost of Mining and Milling Min. & Sci. Press, vol 73, p 523 1½ columns.
- COST OF MINING AND MILLING OPER-ATIONS Min. & Sci Press, vol. 86, p 346. Table.
- CHEAP MINING AND MILLING. Min. & Sci Press, vol 87, p. 214. 1/3 column.
- RELATIVE COST OF MINING AND MILL-ING. Min. & Sci. Press, vol. 87, p. 215.
- CHEAP MINING AND MILLING. Min. & Sci. Press, vol. 79, p. 577. 1 column.
- ECONOMICAL MINING AND MILLING E. & Min J, vol. 50, p. 710. ½ column.
- Cost of Mining and Milling. By R. J. Grant. E. & M. J, vol. 79, p. 804. 4½ columns.
- CHEAP MINING AND MILLING OF ORE.
 Min. & Sci. Press, vol. 75, p. 547.
 † column.
- LOWEST COST OF MINING AND MILL-ING. Min. & Sci Press, vol. 67, p. 165. 1 column.
- CHEAP MINING AND MILLING. E. & M. J, vol. 45, p. 324. 1 column.
- COST OF MINING AND MILLING FREE GOLD ORES. E. & M. J., vol. 42, p. 168. 3 columns.
- THE COST OF MINING AND SMELTING.
 Min. & Sci. Press, vol. 33, p. 336.

 † column.

- Cost of Asphalt Mining and Refining, Indian Territory. E & M. J, vol 76, p. 928.
- DETAILED COST OF MINING AND MILL-ING OPERATIONS, STE. GENEVIEVE, MISSOURI E. & M. J., vol. 34, p. 70 1 column.
- Cost of Mining and Reducing Ores, ELY, NEVADA. Min. & Sci. Press, vol. 87, p 54. Table.
- COST OF MINING AND STAMPING COPPER ORE: Wolverine Mines. E. & M. J., vol. 75, p. 936
- See also Cost of Reduction, and Stamp Mill Practice.
- COST OF MINING AND EXTRACTION AT THE WOLVERINE MINE, LAKE SUPERIOR, MICHIGAN MIN. & Sci. Press, vol 93, pp. 212, 214. Table.
- Cost of Mining and Smelting at BUTTE, MONTANA. E. & M. J., vol. 75, p. 708. 1½ columns.
- Cost of Mining Operations. E. & M. J., vol. 54, p. 347.
- Cost of Mining and Extraction at Butte, Montana Min. & Sci. Press, vol 93, p. 200.
- Cost of Mining and Smelting in Japan. Sch. Mines Quart., vol. 15, pp. 367 and 373. Tables.
- See also Cost of Metallurgical
- COST OF MINING AND TREATMENT OF GOLD-ORES BY AMALGAMATION. T. A. I. M. E., vol. 14, p. 351.
- COST OF MINING AND MILLING IN RHODESIA. Min. Mag., vol. 13, p. 9. Tables.
- COST OF MINING AND MILLING GOLD QUARTZ. Min. & Sci. Press, vol. 43, p. 121. ½ column.
- COMPARATIVE COST OF MINING AND MILLING IN WESTERN AUSTRALIA AND SOUTH AFRICA. Gold Min. & Mill., W Aus., pp. 460, 461.
- Cost of Mining and Milling at the Greatest Australian Gold Mine. E. & M. J, vol. 42, p. 236. } column.

- COMPARATIVE COSTS OF MINING TREATMENT, ETC., FOR YEARS 1893– 1903: Mount Morgan Gold Mining Company. E & M. J, vol 76, p p. 435. Table.
- RELATIVE COST OF MINING AND MILL-ING IN CALIFORNIA MIN. & Sci. Press, vol. 73, p 295. Table.
- CHEAP CALIFORNIA MINING AND MILL-ING. Mm & Sci. Press, vol. 76, p. 225.
- MINE AND MILL COST: Standard Consolidated Mining Company, California E. & M J., vol. 76, p. 397. Tables.
- Cost of Mining and Milling in Northern California. Min & Sci. Press. vol. 93, p 286. Table.
- Cost of Mining and Milling in Mojave Desert, California Min & Sci. Press, vol. 87, p 405. Table
- Cost of Mining and Milling the Marmora, Ontario, Gold Ores. E & M J, vol. 30, p 298 1 column
- Cost of Mining and Milling in Nova Scotia, also Labor Costs Min. & Sci. Press, vol. 91, p. 290.
- Cost of Mining and Milling Gold-Ores in Nova Scotia. By W. I. Pierce. T. A. I. M. E, vol. 13, p. 659
- Costs of Mining and Milling in Nova Scotia. Min & Sci. Press, vol 91, p. 290.
- Cost of Mining and Milling Gold Ores in San Juan District, Colorado. E & M J., vol. 73, p. 696. † column.
- MINING AND MILLING COSTS IN THE MONTEZUMA DISTRICT, COLORADO.
 M. & M, vol. 28, p. 503. ½ column.
- CHEAP MINING AND MILLING IN SOUTH DAROTA By E. J. Kennedy. Min. & Sci. Press, vol. 93, p. 545. \(\frac{3}{4}\) column.
- COST OF MINING AND MILLING TELLU-RIDE ORES IN THE BLACK HILLS. Min & Sci. Press, vol. 87, p. 290. Table.

- Cost of Mining and Milling of Gold in Korea. T I. M & M, vol 12, p 242
- Cost of Mining and Milling, Summit Valley District, Montana. Min. & Sci Press, vol 41, p 98.
- Cost of Mining and Milling, Big Indian Mine. Min & Sci Press, vol 87, p 237 Table.
- Cost of Mining and Milling at the Cactus Mine, Beaver County, Utah. E & M J., vol. 81, p 813
- Cost of Mining and Treatment at the Haile Mine, Virginia E & M. J., vol 62, p 7. Table.
- Costs of Mining and Milling at Santa Fe T. I. M. & M., vol 12, p. 95. Tables.
- CHEAP MINING AND MILLING AT THE SPANISH MINE MIN. & Sci Press, vol 80, p. 318 2½ columns Tables.
- COST OF MINING AND TREATMENT, COURD'ALENE, IDAHO Min & Sci Press, vol. 91, pp 78, 79. Tables
- COST OF LEAD MINING AND SMELTING IN SPAIN E. & M J, vol. 86, p. 329. 1½ columns
- Cost of Mining and Treating Lead-Ores in Mexico. T. A. I. M. E, vol. 13, p. 366
- COST OF MINING AND CLEANING THE ORE IN JOPLIN DISTRICT E & M. J., vol 58, p. 392, ½ column; p 413, 1½ columns; p. 437, 2 columns; and p. 460, 1½ columns.
- Cost of Mining and Milling Blue Rock Phosphate in Tennessee. E. & M. J., vol. 80, p 206.
- COST OF MINING AND CONCENTRATING IN THE ZEEHAN AND DUNDAS SILVER FIELD. T. I. M & M., vol. 4, p 63.
- See also Cost of Mining, Cost of Milling, and Concentration.

Cost of Coal Mining

An Investigation of the Cost of Mining Coal. By J. R. Finlay. E. & M. J., vol. 87, p. 948. 10½ columns.

- DETAILED COSTS OF MINING COAL Second Geol. Sur. Pa., AC, pp 359, 360, 362, 363-367.
- THE COST OF MINING COAL E. & M. J., vol. 87, p. 1099. 62 columns.
- ECONOMY IN THE PRODUCTION OF COAL. Am. Jour. Min., vol. 2, p. 44.
- Cost in Narrow and Gob Entry Methods of Working M. & M, vol. 19, p. 59. Table.
- Some Items of Cost of Coal Mining. E. & M. J., vol. 25, p. 252. $\frac{2}{3}$ column.
- COMPARATIVE COST OF LONGWALL AND PILLAR AND STALL METHODS. Coll Engr., vol 9, p 122. Tables.
- COST OF WORKING BY ROOM AND PIL-LAR SYSTEM WITHOUT GOBBING-UP. T. A I M. E., vol. 2, p 110.
- Cost of Coal Mining. E. & M. J, vol 54, p 241. 3 column
- EXPENSE OF KEEPING A LARGE COL-LIERY IN WORKING ORDER E. & M. J, vol. 73, p. 753.
- PRICE AND PRODUCTION OF COAL E. & M. J., vol. 74, p 672. 11 columns
- COMPARATIVE COSTS OF THE PILLAR-AND-CHAMBER, PILLAR-AND-CHAM-BER RETREATING, AND PANEL SYS-TEM RETREATING. M. & M., vol. 27, p 534 Tables
- COMPARATIVE COST OF WORKING AN 18-IN. COAL-SEAM: When Bottom-Cutting Is Used as Gobbing; and Bottom Cutting Is Used as Brick Material. T. I. M. E., vol. 15, p. 61. Table.
- Cost of Getting Coal. E & M. J., vol. 87, p. 1044. 1 column.
- COST OF USE OF HYDRAULIC MINING CARTRIDGES. T. I. M. E., vol. 15, p. 272. Table.
- COMPARATIVE COSTS OF HYDRAULIC COAL GETTERS AND EXPLOSIVES. M. & M., vol. 27, p. 247. Tables.
- See also Mechanical Mining Appliances: Getters.

- Cost of Coal Getting E & M J., vol 48, p. 139. Tables
- Cost of Machine Mining of Coal. M. & M, vol. 17, p 315. Table.
- Cost of Repairs for Machine Mining in Virginia Coal Mines. E. & M. J., vol. 84, p. 408.
- Cost of Installation and Mining Coal by Machines. By F. W. Parsons. E. & M. J., vol. 82, p. 304. 2 columns.
- Cost of Machine-Mining and Pick-Mining Compared T. I. M. E, vol 17, pp. 174, 175, 176
- Costs of Machine Mining of Coal. E. & M J, vol. 89, p. 624. 1½ columns
- Cost of Machine Mining of Coal. T. I. M. E, vol. 31, pp. 388, 417, 429.
- Cost of Mining Coal by Machines. Sch. Mines Quart, vol. 9, p. 313. Tables.
- COSTS OF COAL-CUTTING BY MACHINERY. T. F. I. M. E., vol. 11, pp 199, 200.
- COST OF CUTTING COAL BY MACHINE VS. HAND. T. F. I. M. E., vol 1, p. 126, Table; p. 132, Table; p. 138, Table.
- ELECTRIC MINING MACHINERY: Some Investigations in Regard to Cost of Operation in Various Mines. By J. N. Bulkley. M. & M., vol. 18, p. 170. 8 columns.
- COST OF ELECTRIC VS. COMPRESSED AIR WORK IN COAL-CUTTING. T. F. I. M. E, vol. 11, pp. 499 and 500. Tables.
- Cost of Operating Electric Coal Mining Machines. P. E. Soc. W. Pa., vol. 13, p. 165. Table.
- COST OF ELECTRIC COAL-CUTTING AT THE GLENCLELLAND COLLIERY. T. F. I. M. E., vol. 9, p. 136. Table.
- See also ELECTRIC COAL MINING MA-CHINES.
- COST OF MINING COAL, RED BANK REGION, PENNSYLVANIA. E. & M. J., vol. 18, p. 51. 1 column.

- COST OF MINING COAL IN THE PENN-SYLVANIA COAL MINES. Rept Inspr. Mines, Pa, 1879, pp. 321 and 323 Tables
- Cost of Mining at Danville, Pennsylvania. T. A. I. M. E., vol 20, p 384
- COST OF MINING IN SOME PENNSYL-VANIA ANTHRACITE COLLIERIES. E & M. J., vol. 45, p. 193. 12 columns.
- ESTIMATED COST OF ANTHRACITE MIN-ING BY WITHDRAWING. E. & M. J, vol. 48, p. 380. Table
- COST OF ANTHRACITE COAL MINING PER CAR, OR WHAT THE MINER GETS. E. & M. J, vol. 73, pp 754 and 887.
- COST OF ANTHRACITE MINER'S OUT-FIT. The Anthracite Coal Industry, Roberts, p. 112. Table.
- INCIDENTAL WORKING EXPENSES OF ANTHRACITE MINER. The Anthracite Coal Industry, Roberts, p 113. Table.
- COST OF MINING IN THE WYOMING REGION. E. & M. J., vol 17, p 37 2 columns.
- THE COST OF ANTHRACITE COAL. Coll Engr., vol. 13, p. 126. 2 columns.
- Cost of Producing a Ton of Anthracite Coal. The Anthracite Coal Industry, Roberts, pp. 45 and 57. 10 pages. I
- THE COST OF ANTHRACITE COAL E. & M J, vol. 80, p. 595. 2 columns.
- PRICE PAID THE MINERS FOR CHAMBER WORK IN ANTHRACITE COAL MINES OF PENNSYLVANIA The Anthracite Coal Industry, Roberts, p. 28.
- See also MINER'S WAGES
- THE COST OF MINING ANTHRACITE. E. & M. J., vol. 79, p. 793. 1½ columns.
- Cost of Recovery of Anthracite from Culm Banks. E. & M. J, vol. 85, p 720. 2 columns.

- THE COST OF COAL AND IRON IN ALA-BAMA E & M. J., vol. 57, p. 74. 1½ columns.
- Cost of Mining Coal in the Crow's Nest Pass, Canada, for Wide and Narrow Work, also Cost of Hoisting and Screening. E. & M. J., vol 73, p 758 ½ column.
- COST OF COAL-MINING IN CHILE, SOUTH AMERICA T I. M. E., vol. 15. p. 242. Table
- Cost of Mining in the Kaiping Coal Mines, China. T. I. M. & M, vol 10, p. 425.
- Cost of Production of Coal at the Mount Diablo Coal Mines. Min. & Sci. Press, vol. 35, p 8. 2 column.
- Cost of Coal Mining in Germany. E. & M. J, vol 77, p. 804. ½ column.
- MINING COSTS IN ILLINOIS. T A I M E., vol 40, p 43 2 pages
- Cost of Coal-Mining in India T. I. M. E, vol 27, p 191 Table.
- Cost of Mining Operations in Inbia (Coal). T. I. M. E, vol 22, p. 191.
- Cost of Mining Coal in Indiana. E. & M. J., vol. 90, p 869. ½ column.
- COST OF UNDERCUTTING COAL IN IOWA T. F. I. M. E., vol. 13, p. 488.
- COST OF COAL MINING IN MEXICO E. & M. J, vol. 89, p. 1076. 1 col-
- ESTIMATED COSTS OF MINING AND COKING AND RELATIVE COMMERCIAL RETURNS FROM OPERATING IN THE CONNELLSVILLE AND WAISTON-RETURNLESVILLE DISTRICTS, PENNSYLVANIA BY E V. D'Invillers. T. A. I M. E., vol. 35, p. 44 16 pages. M. & M., Jan., 1905, p. 313. 8 columns.
- COST SHEET OF A VIRGINIA COLLIERY. E. & M. J., vol. 87, p. 950 Table.
- Cost of Coal Mining in Europe. E. & M. J., vol. 71, p. 656.

- See also COST OF COAL MINING.
- Cost of Working Seams of Different Thickness in England, France, etc. T I M. E., vol 20, pp. 138, 139.
- Comparative Costs and Outputs of Various Methods of Mining in the St. Etienne Coal Fields T. I M. E., vol. 36, p. 421 3 pages.
- COST OF GETTING COAL IN A SOUTH YORKSHIRE COLLIERY. Engineering, London, vol. 74, p. 262. Table.
- COST OF CUTTING COAL WITH THE JEFFREY MACHINE, CANNOCK WOOD PITS, ENGLAND. T. F. I M E, vol. 7, p 307. Table.
- See also Breaking Down Coal at the Face, and Mining Machinery at the Face.
- COST OF HEWING COAL IN ENGLISH MINES. Coll. Working and Management, pp. 219 and 220. Tables.
- COMPARATIVE COSTS OF MINING BY DIFFERENT SYSTEMS IN ENGLAND. Coll. Working and Management, pp. 227, 228, 231, 232. Tables
- PRICES PAID IN ENGLAND FOR BOARD AND WALL WORK. Coll. Working and Management, pp. 78, 79 and 94. Tables.
- Cost of Coal Mining in West Yorkshire Coal Fields. T. F I. M. E., vol. 7, p. 143.
- COST OF MINING COAL IN ENGLAND FROM 1763-1836. Coll. Working and Management, p. 15. Tables.
- Costs of Mining Coal in England Panel System, and Modified Longwall. Coll. Working and Management, pp. 243, 245, 246, 247 Tables.
- See also PANEL MINING.
- COST OF COAL CUTTING IN THE NORTH-ERN COALFIELD, ENGLAND. E. & M. J., vol. 86, p. 1105. 1½ columns.
- THE COST OF LONGWALL IN ENGLAND. By G. R. Dixon. E. & M. J., vol. 86, p. 964. 6½ columns. I.

- LONGWALL TONNAGE PRICES IN ENG-LAND. E. & M J., vol. 85, p. 1148. Table.
- See also Longwall Mining.
- COST OF ROBBING PILLARS IN ENG-LISH COAL MINES: Coll. Working and Management, pp. 173 and 191. Table.
- Cost of Working Pillars. Coll. Working and Management, p. 245. Table.
- See also Drawing Pillars in Coal Mines.

Cost of Metal Mining

- Cost of Mining. By W. R. Ingalls. E. & M. J., vol. 80, p. 302. 3½ columns.
- THE COST OF MINING. By W. R. Ingalls. E. & M. J., Feb. 16, 1905, p. 317, 5½ columns; vol. 79, p. 909, 2 columns; vol. 80, p. 62, 7 columns.
- COMPARATIVE MINING COSTS: Mining, Transport, Milling, Concentrating, Cyaniding, etc. E. & M. J., vol 75, p. 971. 1 column.
- EFFECT OF WIDTH OF VEIN ON COST OF MINING. E. & M. J., vol. 83, p. 965. ½ column.
- THE COST OF MINING. Min. & Sci. Press, vol. 91, p 53. 1½ columns.
- THE CHEAPEST MINING. Min. & Sci. Press, vol. 91, p 135. \frac{2}{3} column.
- CHEAP GOLD MINING AND MILLING IN THE BLACK HILLS. Min. & Sci. Press, vol. 91, p. 137. 2 columns.
- Mining Costs in San Juan, Colorado. Min. & Sci. Press, vol. 91, p. 206.
- Costs in Mining: Crosscutting and levels. By W. H. Storms. Min & Sci. Press, vol. 89, p. 322. 11 columns.
- DETAILED COST OF MINING IN THE ELEHORN MINING DISTRICT, MON-TANA. U. S. G. S., 22nd Rept., pt. 2, p. 418. Table.

- WORKING COSTS IN THE FATHOMAGE SYSTEM. Min & Sci Press, vol. 101, p. 410 11 columns.
- See also the Contract Systems.
- DIFFERENCE OF COST OF MINING IN WET AND DRY GROUND E. & M. J., vol. 80, p. 819.
- Cost of Mining by Fire-Setting vs. Hand Work. T. F I. M. E, vol. 5, p 87.
- Cost of Drift Mining. Min. & Sci Press, vol 60, p. 286 Table
- Cost of Drift Mining. Min. & Sci Press, vol. 68, p 22 Tables.
- Drift Mining Costs. Min. & Sci. Press, vol. 74, p 213. 2 column
- Cost of Drift Mining, California. Min. & Sci Press, vol. 53, p. 20 Table.
- Cost of Drift-Mining. Sch. Mines Quart., vol. 8, p. 300, etc.
- See also Drift Mining.
- COST OF MINING COPPER ORE CON-TAINING HEAVY SPAR. Min. & Sci. Press, vol. 89, p. 194 Table.
- Cost of Mining Operations of the Old Dominion Copper and Smelting Company, Arizona. E. & M. J., vol. 79, p. 1155.
- COST OF MINING AT THE HOMESTAKE MINE. T. A. I. M. E., vol. 17, p 577. Table
- COST OF MINING BY THE CAVING SYSTEM AT BINGHAM CANYON, UTAH E. & M. J., vol. 84, p 439. 1 column.
- Cost of Mining and Treatment of Rio Tinto Copper Ores. E & M. J., vol. 36, p 325 ½ column. Table.
- COST OF MINING OPERATIONS OF COPPER AND TIN ORES IN INDIA. T. F. I. M. E., vol. 9, p. 449.
- Cost of Mining: Tamarack Mining Company. E. & M. J., vol. 46, p. 217. Table.
- COST OF MINING, ANACONDA COPPER COMPANY, MONTANA. Ore Dressing, Richards, vol 2, p. 1130. Table.
- COST OF MINING BY CAVING SYSTEM AT ELY, NEVADA. M. & M., vol. 29, p. 80, 1 column; p. 82, table.

- Cost of Mining in Lake Superior. E. & M J, vol 78, p 906 Table
- See also THE CAVING SYSTEMS OF MINING.
- Cost of Mining Operations in Lead Mines of Afghanistan. T. F. I. M. E, vol 6, p. 455
- PROFITS OF GOLD MINING. Min. & Sci Press, vol 67, p. 339 1 column.
- PROFIT PER TON OF PRINCIPAL GOLD MINES OF THE WORLD T I. M & M, vol 12, p 277 Table
- COST OF WORKING GOLD DEPOSITS.

 Mm. & Sci Press, vol 60, p. 336.

 † column
- Cost of Mining on the Rand. Gold Mines on the Rand, pp. 258, 264 and 265. Table
- MINING COST PER TON UNDERGROUND, RAND MINES, RAND, SOUTH AFRICA M. & M, vol 27, p. 188 Table.
- Cost of Mining in Utah (1880). Min & Sci. Press, vol 40, p 86 Table
- Costs of Mining on the Rand in 1891 T F. I. M. E, vol. 3, pp. 870, 871, 872.
- COSTS AT THE ALASKA-TREADWELL MINES. Min. & Sci Press, vol 85, p. 174 2½ columns.
- THE COST OF MINING AT BROKEN HILL, AUSTRALIA. Miner's Pocket Book, Lock, p 260. Table.
- COST OF STOPING, LUCKNOW, NEW SOUTH WALES. Miner's Pocket Book, Lock, p. 276. Table.
- WORKING COSTS IN THE DEEP LEADS OF VICTORIA T I. M. & M, vol. 17, p. 254. 10 pages. Tables
- CONDITIONS AFFECTING COST OF WORKING THE DEEP LEADS OF VICTORIA T I M. & M., vol. 17, p. 224. 3 pages.
- COST OF GOLD-MINING IN NEW ZEA-LAND. T. F. l. M. E, vol. 10, p. 411. Table.
- COST OF OPERATIONS: Gold Mining in Brazil. T. F. I. M. E., vol. 4, p. 232. Table.

- Working Costs at Rossland, British Columbia. M. & M., vol. 21, p 367.
- COST OF CENTRE STAR MINING OPER-ATIONS Min. & Sci. Press, vol. 82, p. 49. Table.
- THE GWIN MINE COST SHEET. Min. & Sci. Press, vol. 82, p. 62. Table.
- COST OF MINING OPERATIONS AT THE LE ROI MINE, ROSSLAND, BRITISH COLUMBIA. J. C. M. I, vol. 5, p. 314. etc.
- COST OF MINING AND MILLING "FREE"
 GOLD ORES: California, Dakota,
 Venezuela, etc Min. & Sci. Press,
 vol 53, p. 135 3½ columns.
- See also Cost of Mining and Treat-MENT.
- Cost of Mining, Mahoney Mine, California. Min. & Sci Press, vol 82, p. 6. Table.
- Costs, 30 Years Ago and Now, Georgetown, Colorado Min. & Sci. Press, vol. 82, p. 157. Table.
- Cost of Mining Operations: Cripple Creek; Rossland, British Columbia, and Cœur D'Alene District. Rept. Zinc Comm, Canada, p 42. 8 pages.
- GENERAL MINING COST, CRIPPLE CREEK. E. & M J., vol. 87, p 957. 1½ columns.
- COST PER FOOT OF MINING AT THE PORTLAND MINE, CRIPPLE CREEK, COLORADO. T. A. I. M. E., Bethlehem Meeting, Feb., 1906, p 1327. Table.
- Cost of Mining in Colorado. Min. & Sci. Press, vol. 23, p. 83. 1 column.
- Cost of Mining and Labor in the Remedios, Colombia, Mines. T. I. M. & M., vol. 4, pp. 14 and 20.
- See also Cost of Labor.
- Cost of Mining Homestake Mine, South Dakota Min. & Sci. Press, vol. 88, p. 165. Table.
- COST OF MINING AT THE HOMESTAKS, DAKOTA. T A. I. M. E., vol. 17, pp. 577, 578.

- COST OF MINING OPERATIONS IN INDIAN GOLD-FIELDS. T. F. I. M. E., vol. 11, pp 353, 358, 365
- COST OF MINING OPERATIONS IN THE GOLD MINES OF JAPAN. T I. M. & M, vol. 15, pp. 219, 220, 221.
- COST OF MINING OPERATIONS AND SUPPLIES OF COMBINATION MINES, GOLDFIELD, NEVADA. E. & M. J., vol 80, p. 74. Table.
- Costs of Glory-Hole Mining at the De Lamar Mines, Nevada. E & M. J., vol. 87, p. 453. Tables.
- See also Open Cut Mining.
- THE COST OF MINING. E & M. J., vol. 79, p. 669 3 columns.
- MINING COST AT MERCUR, UTAH.
 M. & M., Aug., 1904, pp. 2 and 3;
 E. & M. J, vol. 79, p. 1005. 2½
 columns.
- METHOD OF MINING, MERCUR, UTAH. Costs of Mining, M. & M., Aug., 1904, pp. 2 and 3.
- COST OF IRON ORB MINING IN THE LAKE SUPERIOR MINES. Min. & Sci. Press, vol. 72, p. 461, ½ column; vol. 73, p. 7. Table.
- COST OF MINING AND TIMBERING IN THE SOFTER HEMATITE ORES OF FURNESS, ENGLAND. T F I. M. E., vol 8, p. 49.
- See also Cost of Support.
- Cost of Mining Zinc Ores in Missouri. E. & M. J., vol. 65, p. 367.
- COST OF EXTRACTION OF ORE AT GA-LENA, KANSAS. Univ. Geol. Sur. of Kans., vol. 8, p. 350. ½ page.
- Cost of Mining in Joplin District. M. & M., vol. 18, p. 394. Table.
- Cost of Mining Pennsylvania Zinc Ores. E. & M. J., vol. 24, p. 3. Table.
- DETAILED COST OF MINING OPERATIONS AT JOPLIN AND WEEB CITY, MISSOURI. Univ. Geol Sur. of Kans., vol. 8, p. 373. Table.
- COST OF MINING IN THE JOPLIN RE-GION. Ore Dressing, Richards, vol. 2, p. 1129. Table.

- Cost of Mining Quicksilver. Min. & Sci. Press, vol. 68, p. 50. Tables.
- Cost of Mining in the Guadalcazar District, Mexico (Quicksilver) T. I. M. & M, vol. 4, p 137.
- Cost of Mining at Potosi, Bolivia. T A. I. M. E, vol. 19, p. 95.
- COST OF MINING AT THE CARIBOU SILVER MINES, COLORADO: Shaft Sinking, Level Driving, Tunnelling, and Stoping. E & M J, vol. 24, p 105. Table
- COST OF MINING OPERATIONS FOR WESTERN MINES: Comstock Lode The Mines of the West, Raymond, 1869, pp 62 to 75.
- Cost of Silver-Mining in Mexico T. I. M. E., vol. 21, p. 213.
- Cost of Mining at La Descubridora Mine, Mexico E. & M. J, vol. 72, p. 699.
- Cost of Mining Operations in the Tin Mines of Tasmania. T F I. M. E., vol. 13, p. 581.
- COST OF TIN MINING OPERATIONS AT PERAK, CHINA. T. I M. & M., vol. 6, p. 65, etc.
- THE COST OF MINING AND EARTH-WORK IN ASIA MINOR, PERSIA, AND BURMA. By T. T. Wynne. T. I M. & M., vol. 4, p 290
- Cost of Quarrying Ore in the Open, Cost in the "Joya" Mine per Ton of 1000 Kilos, Spain. T. A. I M. E., vol. 21, p. 93
- See also METHODS OF MINING: General and Miscellaneous.

Cost of Milling

- MILLING COSTS. By R S. Handy. Min. & Sci. Press, vol 98, p. 156. 2 columns. D.
- MILLING COSTS. P. C. M. & M. Soc. S. A., vol. 8, p. 238. Tables
- CHEAP MILLING AND MINING. Min. & Sci Press, vol 74, p. 473. 1/2 column

- Cost of Ore-Treatment. T. F. I. M E, vol 4, pp. 355, 356, 357, 358, 362, 363, 366, 371, 396, 406, 407, 408.
- Cost of Construction and Operation of Dressing Works. Min. & Sci. Press, vol. 34, p. 233. ½ column.
- Cost of Milling Ore: How the Cost is Reduced. Mm. & Sci. Press, vol. 45, p 204. ½ column.
- Cost of Milling, Past and Present Min. & Sci Press, vol. 74, p. 235. Table.
- COST OF MILLING IN SEVERAL OF THE WESTERN STATES Min. & Sci Press, vol. 53, p 135.
- FACTORS AFFECTING COST OF MILLING Ore Dressing, Richards, vol 2, p 1127. 2 pages.
- THE COST OF GOLD MILLING Min. & Sci. Press, vol. 87, p 10. 23 columns Table.
- Cost of Milling Silver Ores Mm. & Sci Press, vol. 57, p. 344 $\frac{1}{3}$ column.
- Cost of Ore Treatment: Especially Gold. T. F. I M. E., vol. 5, pp 286, 288, 289, 290, 292, 293, 294, 295, 297, 315, 317, 323, 326, 334, 335, 339, 340, 341, 345, 348, 350; vol 6, pp. 77, 78, 87, 91, 101, 102, 103, 107, 108, 310, 311, 337, 485, 487, 488; vol. 7, pp. 75, 81, 83, 84, 86, 87, 93, 94.
- COST OF MILLING ON THE RAND.
 Gold Mines of the Rand, p. 261.
 column
- Cost of Gold Milling. T. F. C. M. I., vol 3, p. 106. Table
- Costs of the Elmore Process. E. & M. J, vol. 88, p 207. ½ column.
- COST OF CONCENTRATION BY ELMORE PROCESS Min & Sci. Press, vol. 86, p. 338. $\frac{2}{3}$ column
- Cost of Elmore Oil Concentration in Western Australia. Gold Min. & Mill., W. Aus , p. 414.
- Cost of the Flotation Process. Min. & Sci. Press, vol. 94, p. 730.

- COST OF THE ELMORE VACUUM FLO-TATION PROCESS. E. & M. J., vol. 83, p. 1205. 1½ column.
- See also Floration Processes
- Cost of Concentration with the Frue Vanner Gold Mines of the Rand, pp. 207, 261. Table.
- Cost of Vanner Repairs: Belts, etc., for Various Makes. Ore Dressing, Richards, vol. 2, p. 664 Tables.
- Cost of Wood Jig Grates. E. & M. J., vol. 88, p 1025. ½ column.
- COST OF MAGNETIC SEPARATION BY WETHERILL SEPARATOR IN COLO-RADO. E. & M. J., vol. 83, p. 1137.
- Cost of Magnetic Separation of Zinc Ores. Rept. Zinc Comm, Canada, pp. 88 and 99. Tables
- PRICE OF DING'S MAGNETIC SEPARATOR, SIZES, ETC. Rept. Zinc Comm., Canada, p. 114. Table
- Cost of Concentration of Iron-Ore by Magnetic Separators. T. A. I. M. E., vol. 20, p. 608.
- Cost of Concentration with Wetherill Magnetic Concentrator. E. & M. J, vol. 64, p 100
- Cost of Magnetic Concentration at Tilly Foster Mine. T. A I. M. E., vol. 21, p. 521.
- COST OF MAGNETIC CONCENTRATION OF IRON-ORE AT TILLY FOSTER MINE. T. A. I. M. E., vol. 19, p. 73.
- See also Magnetic Separation.
- COST OF BLAKE-MORSCHER ELECTRO-STATIC SEPARATOR. Rept. Zinc Comm., Canada, p. 119.
- See also Electro-Static Separation. Cost at the Atlantic Mill, Lake Superior, for 1881–1887. T. A. I.
- Cost of Concentrating Copper-Ores in Australia. T. I. M. E., vol. 23, p. 521.

M. E., vol. 17, p. 676.

- COST OF MINING AND TREATMENT OF RIO TINTO COPPER ORES. E. & M. J., vol. 36, p. 325. Table.
- See also Cost of Mining and Treat-MENT.

- COST OF MILLING, ANACONDA COPPER COMPANY Ore Dressing, Richards, vol 2, p. 1130. Table.
- MILLING COST AT LAKE SUPERIOR COPPER MILLS, FROM REPORTS. Ore Dressing, Richards, vol 2, p. 1131. 1 page.
- MILLING COST, ATLANTIC MINE AND MILL. T I. M. & M, vol 7, p. 20. Table
- COST OF ORE TREATMENT, MOUNT LYELL. Min. & Sci. Press, vol. 86, p. 332. Table.
- COST OF CONCENTRATING AT THE WALL MILL, BINGHAM, UTAH. E. & M. J., vol 82, p. 1011. ½ column.
- COST OF EXTRACTION IN THE BOSTON MILL, BINGHAM, UTAH. E. & M. J., vol 84, p. 485. 1 column.
- COST OF MILLING PYRITIC ORES ON THE RAND. T. I. M. & M., vol. 7, p. 137. Table.
- MILLING COSTS ON THE WITWATERS-RAND. T. I. M. & M., vol. 7, p. 6. Table.
- Cost of Ore Treatment on the Rand Min. Mag, vol. 12, pp 175, 176, 186.
- COST OF STAMPING AND TREATMENT PER TON ON THE RAND. E. & M. J, vol. 78, p 141. Tables.
- Cost of Drying Ore on Rand J. C. & M. Soc. S. A, vol. 1, p 82. ½ page.
- GENERAL WORKING (MILLING) COSTS FOR THE RAND. E. & M. J., vol. 88, p. 1069. 6 columns. Tables.
- COST OF MILLING AT ALASKA-TREAD-WELL MINES. E & M. J., vol 77, p. 715. ½ column.
- COST OF STAMP-MILLING IN THE BLACK HILLS, SOUTH DAKOTA. T. A. I. M. E., vol. 25, p. 920.
- COST OF MILLING IN 1887-'88 AT HOME-STAKE AND GOLDEN STAR MILLS. T. A. I. M. E., vol. 17, p. 540.
- COST OF ORE TREATMENT, WESTERN AUSTRALIA: Concentration and Cyaniding. Min. & Sci. Press, vol. 93, p. 688. Tables.

- Cost of Milling of Telluride Ores, Kalgoorlie, Australia Min. & Sci. Press, vol. 90, p. 205. Tables.
- COST OF MILLING AND REDUCTION, OROYA-BROWNHILL, KALGOORLIE Min. & Sci. Press, vol. 91, p. 384. Table.
- COST OF MILLING IN WESTERN AUSTRALIA Gold Min. & Mill., W. Aus, pp. 195, 197, 212
- GENERAL WORKING COST IN NEW SOUTH WALES Milling Costs. T. I. M & M, vol. 7, pp. 149, 150, 152. Tables.
- MILLING AND GENERAL COST OF TREATING BROKEN HILL ORES, NEW SOUTH WALES. E. & M. J, vol 87, p. 940. Tables.
- COST OF OPERATIONS AT MACTEAR. SOUTH GERMAN MINES, MALDEN, VICTORIA Mining and Milling T. I. M. & M., vol 6, p 46.
- METHODS AND COST OF MILLING GOLD ORES IN QUEENSLAND T. I. M. E, vol. 21, pp 396, 399, 400 Table.
- COST OF MILLING MAHONEY MILL, CALIFORNIA. Min. & Sci. Press, vol. 82, p. 6 Table.
- Cost of Milling in California. Min. & Sci Press, vol. 73, p. 276.
- Cost of Milling, Grass Valley, California, North Star Mine T. I M. & M, vol 5, p. 156.
- COST OF TREATMENT AT YMIR, NELSON, BRITISH COLUMBIA. Min & Sci. Press, vol 92, p. 202. Table
- COST OF OPERATING IN THE SLOCAN MILLS. J C. M I., vol. 6, p 159.
- MILLING COSTS OF GILPIN COMPANY, COLORADO (1892). E. & M. J, vol 54, p. 245, etc.
- COST OF MILLING TELLURIDE ORES IN WESTERN AUSTRALIA Min & Sci. Press, vol. 82, p 158 Table.
- MILLING COSTS AT THE GOLDEN CYCLE CONCENTRATOR. M & M, vol 30, p. 673. 13 columns.

- MILLING COSTS AT THE ALICE MINE, COLORADO M. & M., vol. 29, p. 296. \(\frac{1}{2}\) column
- FREIGHT AND TREATMENT CHARGES ON CRIPPLE CREEK ORE. E & M. J., vol 78, p. 1022. Table.
- See also Cost of Transportation.
- MILLING COSTS AT CRIPPLE CREEK. E. & M J, vol 87, p. 957. 1½ columns
- COST OF TREATMENT OF GOLD ORES IN MILLS HAVING CAPACITIES OF 3,000 TONS PER MONTH, CRIPPLE CREEK, COLORADO T. I. M. & M., vol. 8, p. 82.
- Scale of Charges in Cyaniding and Chlorination Plants, Cripple Creek, Colorado. T. I. M & M, vol 8, p. 90.
- CHARACTER OF ORE, COST OF TREAT-MENT AND FREIGHT RATES AT WIL-SON, COLORADO. Sch. Mines Quart., vol 20, p. 46.
- APPROXIMATE COST OF GOLD MILLING IN COLORADO, IN 1898. Engineering, London, vol. 66, pp. 6, 223. Tables.
- COST OF MILLING ARGENTIFEROUS GALENA IN NORTHERN IDAHO. Ore Dressing, Richards, vol. 2, p. 1130. Table.
- COST OF STAMP-MILLING IN IDAHO. Ore Dressing, Richards, vol. 2, p. 1133. Table
- COST OF MILLING AT THE ALASKA-TREADWELL. Ore Dressing, Richards, vol. 2, p. 1133. Table.
- MILLING COSTS AT UNSAN, KOREA. Mm. & Sci. Press, vol. 100, p. 606. Table.
- Cost of Ore Treatment in Mexico. Min & Sci. Press, vol 84, p. 66. Table
- COST OF TREATMENT OF GOLD AND SILVER ORES AT GUANAJUATO, MEX-ICO Min. & Sci. Press, vol. 81, p. 5. Tables.
- COST OF MILLING SILVER-GOLD ORES AT THE PALMAREJO MINE, MEXICO.

- T. A. I. M. E., vol. 36, p. 264. Table.
- COST OF TREATMENT OF TON OF ORE IN THE MONTEZUMA DISTRICT, MEXICO. E & M. J., vol. 79, p. 1008 Table
- MILLING COSTS ON GOLD AND SILVER ORES AT TAJO ROSARIO, MEXICO. T. A. I. M. E., vol. 41, p. 338, table; p. 367, table.
- COST OF MILLS AND EQUIPMENT, BLACK HILLS, MEXICO. T. F I M. E, vol. 7, p 107.
- Analysis of Milling Costs per Ton of Pulp and Ore Treated at Elkhorn Mine, Montana. U. S G. G S, 22 Ann. Rept, pt 2, p. 417. Tables.
- Cost of Milling Ore in Montana. Min. & Sci Press, vol 55, p. 149. Table.
- COST OF MILLING AT THE ELEHORN MINING COMPANY MILL. E. & M. J., vol. 51, p 473. Table.
- Cost of Milling, Montana. T. A. I. M E., vol. 18, p. 248.
- COST OF ORE TREATMENT OF THE COMBINATION MINE Min. & Sci. Press, vol. 93, p 454 Tables
- COST OF ORE TREATMENT AT THE PITTSBURG SILVER PEAK MILL, NEVADA M. & M., vol 29, p 572. Tables.
- THE COST OF MILLING SILVER ORES IN UTAH AND NEVADA. By R. P. Rothwell. T. A. I. M. E, vol. 8, p. 551
- COST OF EXTRACTION PER TON APART FROM GENERAL EXPENSES, CABEZAS DEL PASTO MINE, SPAIN, 1890. T. A. I M. E., vol. 21, p. 100.
- Cost of Amalgamating Gold Ores. E & M. J., vol. 38, p. 140.
- MILLING: Amalgamation, etc, in California. Mm. & Sci. Press, vol. 19, p. 24. Table.
- COST OF AMALGAMATING ORES IN UTAH AND NEVADA. Min. & Sci. Press, vol. 42, p. 274, 1½ columns: p. 306, 1½ columns.

- COST OF AMALGAMATION AND OTHER WET PROCESSES IN MEXICO FOR SILVER ORES. T. I. M. & M, vol. 13, p. 115. Table.
- COMPARATIVE COSTS OF AMALGAMATION, CANVAS TABLES, AND CYANID-ING GOLD ORES MIN & Sci. Press, vol. 84, p. 48. Table
- See also Amalgamation of Gold and Silver.
- Cost of the Reese River Process of Amalgamating. E & M J, vol. 11, p. 26 Table
- Cost of the Patio Process. Min. & Sci. Press, vol. 94, p. 825. Table.
- COST OF PATIO PROCESS AT SAN DIMAS. E. & M. J., vol. 34, p. 294. Table.
- Cost of Patto Process T. A. I. M. E, vol. 11, pp. 76, 77.
- Cost of Patio Process. T. A. I. M. E, vol. 13, p. 370.
- See also The Patio Process of Amal-Gamation.
- COST OF CYANDING AT MERCUR, UTAH. E. & M. J., vol 54, p. 441. Table.
- COST OF MILLING AND CYANDING IN THE TRANSVAAL. Min. Mag., vol. 11, p. 451. Table.
- Cost of Filter Pressing on the Rand. Min. Mag., vol 12, p. 186.
- COST OF SLIME TREATMENT AT THE TAJO, ROSARIO CYANIDE PLANT, MEXICO. T. A. I M. E., vol. 41, pp. 352, 354 and 357. Table.
- See also SLIMES AND THEIR TREAT-MENT.
- DETAILED COST OF RUSSELL'S LIX-IVIATION PROCESS. E & M. J, vol. 39, p. 438. 1 column
- Cost of Milling and Cyaniding at Palmarejo E. & M. J., vol. 80, p. 340.
- See also Cyaniding Gold, and Cost of Cyaniding.
- Cost of Plant for Treating Black Sands for Iron and Steel. P. C. M. & M., Soc. S. A., vol. 7, p. 418. † column.

- Cost of Milling in the Jorlin Region M. & M, vol. 28, p. 154 ½ column.
- COST OF DRESSING LEAD ORE AT BONNE TERRE, MISSOURI T. A I M. E, vol. 17, p. 676.
- PRICE OF CEUR D'ALENE CONCENTRATES: Freight and Smelting Charges E. & M J, vol. 48, p. 449, 1 column; p 493, ½ column, p 520, ½ column, p. 541, 1 column.
- MILLING COST AT THE PIERREFITTE
 MINE, FRANCE T A I M. E.,
 vol 39, p 390 1 page Table.
- MILLING AND LABOR COSTS IN SOUTH-WEST WISCONSIN. E. & M J., vol 81, p 1141, etc. Tables.
- Cost of Concentration at Galena, Kansas: Wear of Crusher Jaws, Rolls, Shells, Elevator Buckets, Centrifugal Pumps, Screens, and Rubber Belting Univ. Geol. Sur. of Kans., vol 8, p. 351. 6 pages.
- Cost of Milling in the Joplin Distrior. Ore Dressing, Richards, vol. 2, p. 1129. 1 page.
- Cost of Milling in Joplin District. M. & M, vol. 18, pp 482, 483.
- Cost of Treating Ores at Almaden Min. & Sci. Press, vol 37, p. 392. 2 columns; p. 408, 12 columns.
- THE COST OF MAKING NICKEL FROM NEW CALEDONIA ORES E. & M. J., vol 77, p. 727 1½ columns
- COST OF EVAPORATING SALT FROM BRINES. E. & M. J, vol. 80, p. 532
- See also SALT MAKING
- Cost of Dressing Tin Ore at Mount Bischoff, Tasmania. T. I. M. & M., vol. 14, p. 227. Table
- COST OF WASHING TIN ORE BY ROTARY PAN METHOD. P. C M. & M. Soc S. A., vol. 8, p. 177. Table.
- COST OF TIN ORE DRESSING IN CORN-WALL. E. & M. J, vol. 40, p. 416. 2 columns.
- COST OF TREATING ORE AT SASATA-GANI MINE, JAPAN. M. & M, vol. 18, pp. 105, 106.

- Cost of Ore Dressing in Saxony. Sch. Mines. Quart., vol 15, p. 134. 1 page.
- See also Concentration, and Cost of Mining and Treatment.

Cost of Operating Elevators and Conveyors

- FIRST COST OF CONVEYORS AND COST OF MAINTENANCE OF SAME. The Mechanical Handling of Material, p. 92. Table
- COST OF LOADING VESSELS BY RIGG'S ELEVATOR. The Mechanical Handling of Material, p 267.
- COST OF LOADING VESSELS BY WALL'S DEVICE. The Mechanical Handling of Material, p 363.
- Cost of Elevating Ore by Bucket Elevator, Carthage, Missouri Min & Sci. Press, vol. 93, p 76.
- Cost of Construction and Operation of Shaking Shute for Conveying Ore in Mines, Transvaal, South Africa. Min. Mag., vol. 12, p. 277. Table.
- COST AND POWER REQUIRED TO OPERATE A BELT ELEVATOR E. & M. J., vol. 76, p. 236.
- See also Elevators

Cost of Ores and Metals

- DETERMINATION OF COST OF ORE. T. L. S. M. I, vol 6, p. 15
- PRICE PAID FOR ORE (GOLD) ACCORD-ING TO ASSAY VALUE. Min. & Sci Press, vol. 27, p. 409. Table.
- VALUE OF ORES AND ROYALTY PAID, GEM LODE, IDAHO SPRINGS. M. & M., vol 27, p. 72. Table.
- ORE PRICES IN COLORADO. Min. & Sci. Press, vol. 19, p. 306.
- COST OF IRON ORES AT DULUTH. T. A. I. M. E., vol. 16, p. 199.
- LAKE SUPERIOR IRON-ORE PRICES. E. & M. J, vol. 84, p. 1110. 1½ columns.

- PRICES PAID FOR SILVER-LEAD ORES. Min. & Sci. Press, vol. 87, p. 222. † column.
- ZINC-LEAD ORES IN COLORADO, MAR-KET AND PENALITIES. Min. & Sci. Press, vol. 77, p. 304. ½ column.
- Cost of Rare Metals per Pound. M. & M, vol 19, p. 382. Table.
- THE PRICE OF PLATINUM. E. & M. J, vol. 82, p. 745. 13 columns.
- PRICE AND COSTS OF MALAY TIN ORES. Tin Deposits of the World, p. 60.
- See also Value of ORE and Its Determination.

Cost of Packing and Portage

- Cost of Hauling and Packing Supplies for the Placer Mines in Boise Basin, Idaho. E. & M. J, vol. 68, p 395.
- FREIGHTING FROM MINE TO RAILROAD, IDAHO. M. & M., vol. 22, p 204. Table.
- Cost of Packing by Mules, Donkeys and Llamas in Bolivia. T. I. M. & M., vol. 7, p. 87. Table.
- Cost of Packing Ore on Horse-Back. E. & M. J., vol. 76, p. 817.
- COST OF PACKING THE FIRST OF THE ORE PRODUCED IN ASPEN, COLORADO: Which was done by "Burrows" or "Jacks." T. A. I. M. E., vol. 17, p 159.
- For other FREIGHT RATES see same reference.
- COST OF PACKING BY MULES, DONKEYS AND LLAMAS, BOLIVIA, SOUTH AMERICA. Tin Deposits of the World, p. 121. Table.
- Cost of Mule Haulage Miner's Pocket Book, Lock, p. 282. Table. See also Portage, Packing and Fluming.

Cost of Pipe and Pipe Laying

COST OF LAYING WOOD PIPE. E. & M. J., vol. 84, p. 15. ½ column.

- Cost of Wooden and Steel Pipes and Flumes. Min. & Sci Press, vol. 89, p. 176. Tables.
- Cost of Laying a Submerged Cast Iron Pipe. Eng-Cont, vol 27, p. 61. 11 columns. I
- COMPARATIVE COST OF CAST IRON AND STEEL PIPE Min & Sci. Press, vol. 72, p. 421. ½ column.
- Cost of Pipe Line Construction. E. & M. J., vol. 76, p 541.
- PRICES OF WROUGHT-IRON LAP-WELDED, STEEL-SOCKETED TUBES. Well-Boring, C. Isler, p. 65 Table.
- Cost of Pipe (Water) in Western Australia. Gold Min. & Mill, W. Aus., pp. 139, 140.
- COST OF LAYING LARGE SLIP-JOINT PIPE FOR HYDRAULICING IN COLO-RADO. Min. & Sci. Press, vol. 93, p. 688. Table.

See also Hydraulic Mining

- COST OF 5-, 2½- AND 1½-INCH IRON PIPE (FOR AIR SERVICE). T. A. I.. M. E., Albany Meeting, Feb., 1903, p. 4. Table
- Cost of Pipes (Piping) on the RAND, 1902. Witwatersrand Goldfields, p. 458. Table.
- COST OF 4-INCH FLANGED WROUGHT IRON PIPE M. & M., vol 25, p. 544. Table.
- COST, LIFE, AND CAPACITY OF CON-SPICUOUS TYPES OF PRESSURE PIPES. Columbia Engineer, 1898– '99, p. 117. Table.
- COST OF IRON-PIPE AND WOODEN-BOX CULVERTS. R. R. Construction, Webb, p. 400. Table.
- COST OF THAWING WATER PIPES BY ELECTRICITY. Eng.-Cont, vol. 27, p. 125.
- See also Pipes and Pipe Fittings, and Cost of Excavating.

Cost of Power

Cost of an Indicated Horse-Power. Min. & Sci. Press, vol. 69, p. 137. † column.

- Cost of Power in California. Mm. & Sci. Press, vol 91, p. 441. 1 column.
- Cost of Small Power Plants. E. & M. J., vol. 76, p. 360.
- THE COST OF POWER. E. & M. J, vol 71, p. 716.
- Man Power and Its Cost. Min. & Sci. Press, vol. 84, p. 18. ½ column.
- Cost of Power as Related to Load Factor. J. W. Soc E., vol. 14, p 241. 21½ pages D.
- THE COST OF POWER J C M. & M., Soc. S. A., vol. 7, p. 314. 1 column.
- Cost of Power per Horse-Power Day. Min & Sci. Press, vol. 101, p. 615. Note.
- Power Cost at the Ely Mill, Nevada. M & M, vol. 29, p. 172. Table.
- Power Cost in Rand Mines. E. & M. J., vol. 85, p. 548. 3 columns.
- ECONOMY BY SUBDIVISION IN INSTALLATION AND OPERATION OF POWER AND MACHINERY UNDER VARYING DEMANDS: Loss Resulting from Working Machines at Under Capacity. By J. L. Hornig. E. & M. J., vol. 36, p. 16 1 column.
- Cost of Power: Factors to be Considered. Min. & Sci. Press, vol. 89, p. 51. ½ column.
- Cost per Horse-Power per Year. E. & M. J., vol. 69, p. 324.
- Cost of Power in a Large Store Building in Pittsburg. P. E. Soc. W. Pa, vol. 11, p. 330. 2 pages.
- MEMORANDA RELATING TO THE BOILER ACCOUNT AS KEPT DURING THE CON-STRUCTION OF THE EDGAR THOMSON STREEL WORKS. By P Barnes. T. A. I. M., E., vol. 6, p. 525.
- First Cost of Power Plant for 300-Ton Mill, Joplin District E. & M. J., vol. 86, p. 328. Table.
- Low Cost of Steam Power in New England. Min. & Sci. Press, vol. 75, p. 364. 1 column.

- Cost of Steam Horse-Power per Annum in the West. E. & M J., vol. 82, p. 212
- See also STEAM BOILERS AND POWER PLANTS.
- Cost of Steam-Power. Kent's Mech. Engr's Pocket Book, p. 790. Table.
- DECREASING COST OF STEAM PRODUCTION M. & M, vol 18, p. 333.
- Cost of Steam at Portland Mine. T. A. I. M. E, Feb., 1906, p 1304. Table
- SAVING IN COST BY THE UTILIZATION OF EXHAUST STEAM. T. I. M. E., vol 24, p 339.
- COST OF FIRING BOILERS WITH AND WITHOUT MECHANICAL DRAFT. Columbia Eng., 1898–'99, pp 30, 31, 33, 34, 35.
- MECHANICAL VS. HAND STOKING Costs Min. & Sci. Press, vol. 88, p. 181. ½ column. Table.
- See also Mechanical Feeders for Steam Boilers
- Cost of Steam Raising By J. Holliday. Engineering, London, vol 68, p. 739. 4 columns.
- COST OF STEAM AT THE PORTLAND MINE, COLORADO. T. A. I. M. E., vol. 37, p 96. Table.
- Cost of Power Generation: Comparative Costs by Steam, Water and Gas Engines. By J B C. Kershaw. Engineering, London, vol. 70, pp. 351, 390. 3 columns
- COST AND SAVING OF STEAM PIPE COVERINGS. E. & M. J., vol. 81, p. 572
- COMPARATIVE COST OF STEAM AND WATER POWER. E & M. J, vol. 47, p. 502 2½ columns.
- RELATIVE COST OF WATER AND STEAM POWER. Min. & Sci. Press, vol. 30, p. 35. ½ column.
- Cost of Water Horse Power per Year. Min. & Sci. Press, vol 83, p. 181
- Cost of Running Electric-Plant. T. A. I. M. E., vol. 20, p. 366.

- Cost of Electrical Power per Ton in the Black Hills Min. & Sci. Press, vol. 92, p. 53 ½ column.
- Cost of Generating Stations Complete. Engineering, London, vol. 77, p. 773. Table.
- COST OF ELECTRIC MOTORS VS. STEAM ENGINES E. & M J., vol 50, p. 160. 1 column.
- COST OF ELECTRICAL POWER IN UNITED STATES AND CANADA. California Miners' Assoc, Ann, 1906, p. 53. ½ page.
- Cost of Electricity per Kilowatt Hour California Miners' Assoc, Ann., p. 109
- Cost of an Electrical Installation in a Colliery: English Practice. T. F. I. M. E., vol. 7, p 129 Table.
- COST OF ELECTRIC POWER AT GOLD-FIELD, NEVADA. E. & M. J, vol 82, p. 342. Table.
- Cost of Electricity per Kilowatt Hour. Min. Mag., vol. 12, p. 369. Table.
- Cost of Electric Power. By Louis Ball. Electrochemical Industry, Aug., 1904. 1½ columns. Min Mag, Oct.-Nov, 1904, p. 297.
- Power Costs: Electricity, Steam, Gas, etc Min & Sci. Press, vol. 93, p. 757. ½ column
- Cost of Electric Power at Joplin E. & M. J., vol. 80, p. 64 ½ column.
- COST OF AN ELECTRICAL UNIT AT A COLLIERY. By P. C Greaves. T. I. M. E, vol. 32, p. 363. 22 pages
- COST OF ELECTRICITY AT VIRGINIA CITY, NEVADA. E. & M. J, vol. 76, p. 851.
- Cost of Electric Power, Silver Lake, Colorado. E. & M. J., vol. 76, p. 307.
- Comparative Costs of Electrical Power. Min. & Sci. Press, vol. 81, p. 402. Table.

- Cost of Electric vs. Water Power Min. & Sci Press, vol. 74, p 233 Table
- Cost of Electrical Power Plant E. & M J., vol 74, p. 743. 1 column.
- Cost of Electric Plant Operation, Portland Mine, Cripple Creek, Colorado. T. A I. M. E., Feb, 1906, p. 1305. Table
- Cost of Electrical Power: Smuggler-Union E & M. J, vol. 76, p 118.
- Cost of a Horse Power Hour in Different Sorts of Motors. Min & Sci Press, vol 82, p. 94.
- COST OF ELECTRIC POWER, RAND MINES E. & M. J, vol. 85, p. 550. 3 columns
- Systems of Charging for Electrical Energy. By W T Ryan. Mm. & Sci. Press, vol. 98, p. 694. 32 columns.
- Cost of Electric Power. Min. & Sci. Press, vol. 85, p. 217.
- Cost of Electric Power E & M. J., vol. 80, p 640. $\frac{2}{3}$ columns
- COMPARATIVE COST OF PLANTS PER HORSE POWER TRANSMITTED Electricity, Hydraulic, Pneumatic and Wire Rope. Miners' Pocket Book, Lock, pp 120, 121, 294 and 295. Tables.
- COST OF ELECTRICAL INSTALLATION COMPARED WITH STEAM. E. & M. J., vol. 80, p. 357.
- COST OF ELECTRICAL POWER IN COL-LIERIES. Coll. Eng, vol 8, p. 225. Tables.
- Cost of Electrical Transmission. T F I. M. E, vol 8, p. 256.
- Cost of Wires for Electrical Transmission. E. & M. J, vol. 69, p 81.
- COST OF COMPLETE ELECTRIC PLANT FOR TRANSMISSION OF POWER VAR-IOUS DISTANCES. T. A. I. M. E., vol. 16, p. 854.

- Cost of an Electrical Plant to Transmit 100 Horse Power Five Miles. T. F. I M. E., vol 3, p. 288 Tables
- See also THE ELECTRIC POWER PLANT AND ITS EQUIPMENT.
- Cost of Electrical Transmission. Miners' Pocket Book, Lock, pp. 110, 111, 113. Table
- See also Power Transmission, ETC
- RELATIVE COSTS OF TRANSMISSION OF POWER. Min. & Sci. Press, vol. 61, p. 72. ½ column
- Cost of an 18½, 13½ and 6½ Inch Three-Stage Air Compressor, Norwalk, Straight-Line T. A. I. M. E. Feb., 1903, p. 4. Table.
- SAVING IN COST BY INTRODUCING CENTRAL COMPRESSED AIR PLANT M. & M, vol. 25, p. 161. 1/2 column.
- Cost of Compressing Air, Portland Mine. T A I. M E, Feb., 1906, p. 1305. Table.
- Cost of Air Compression. E. & M. J, vol. 59, p. 101
- COST OF ELECTRICITY VS. COMPRESSED AIR. E. & M. J., vol. 75, p. 669. Table.
- COST OF COMPRESSED AIR HAULAGE PLANT. M. & M., vol. 25, p. 569. † column.
- Cost of Compressed Air in Terms of Indicated Horse Power. T. N. S. I M. & M. E, vol 9, p 51. Table.
- Cost of Construction of a Compressed Air Power Station. P. E. Soc. W. Pa., vol. 13, p. 188. Table.
- Cost of Operating a Compressed Air Motor, as Compared with Mule Haulage. M & M., Sept. 1903, p. 77.
- Cost of Power for Operating Va-RIOUS Forms of Air Compressors. M. & M., vol 27, p. 102. Table.

- Cost of Various Forms of Air Compressors M. & M., vol. 27, p. 102 Table.
- COST OF COMPRESSED AIR, PORTLAND MINE, COLORADO. T. A. I. M E., vol. 37, p 97 Table
- MACHINE AIR COST ON THE RAND. P C. M & M Soc S. A., vol 10, p. 280. 1 column.
- Cost of Various Forms of Compressed Air Installations. E & M J., vol 86, p. 229. 1½ columns.
- COMPARATIVE COSTS OF COMPRESSING AIR WITH STEAM AND ELECTRICITY AT ROSSLAND, BRITISH COLUMBIA. By Wm Thompson. J. C M. I, vol 6, p. 180. 8 pages.
- COST OF COMPRESSED AIR VS. HYDRAULIC POWER T. N. S. I. M. & M. E, vol. 9, p. 330. Table.
- THE COST OF LEAKAGE IN COMPRESSED AIR PLANTS. J. C M. & M Soc. S. A., vol. 7, p. 308 1 column.
- See also Compressed Air in Mining.
- Cost of Liquid Air. E. & M. J., vol 81, p. 284.
- Cost of Operating Gas Engines. Min. & Sci. Press, vol. 82, p. 292
- RELATIVE COSTS OF GAS AND STEAM
 PLANTS Min. & Sci. Press, vol. 89,
 p. 327. Table.
- Cost of Gas Power. By C. E. Lucke. Sch. Mines Quart., vol 30, p 199. 18 pages.
- Cost of Manufacture of Illinois Gas E & M. J., vol. 76, p 507
- COST OF GASOLINE PUMP FOR IRRIGATION OR MINE USE. E. & M J., vol. 80, p. 296.
- COST OF AN OIL-ENGINE FOR UNDER-GROUND USE. T. I. M. E., vol. 18, p. 399.
- COST OF PRIESTMAN OIL ENGINE PER HOUR. T. F. I. M. E., vol. 3, p. 262. Table
- See also Power, ETC, and Gas and Oil Engines.

Cost of Producing Various Materials

- PERCENTAGE SUBDIVISION OF COST OF PRODUCING MINERAL: Cost per Ton; Mining Plant, etc; Labor, Supplies, etc, Timber, Maintaining Workings etc, Milling, etc; and Management, etc. T A. I. M E, California Mines and Minerals, p. 64.
- COST OF PRODUCTION OF TRINIDAD ASPHALT Min. & Sci. Press, vol. 66, p 262.
- Cost of Producing China Clay E. & M. J., vol. 79, p. 1080.
- Cost of Production and Profits per Ton Coal, Belgium. E. & M. J, vol. 74, p. 706.
- Cost of Mining Anthracite Coal. E. & M. J., vol. 77, p 592. 1 column.
- See also THE COAL TRADE.
- Cost of Producing Copper per Ton. E. & M. J., vol. 30, p. 108. Table.
- COST OF PRODUCING COPPER AT CAL-UMET AND HECLA MINES. E. & M. J, vol. 40, p. 420. 2 columns.
- Cost of Producing Lake Copper. Min. & Sci. Press, vol. 83, p 75.
- Cost of Cananea Copper Min. & Sci. Press, vol. 83, p. 86.
- Cost of Copper at Atlantic Mine. Min. & Sci. Press, vol. 83, p. 86.
- REASON FOR DIFFERENCE IN COST IN LAKE SUPERIOR. Min & Sci. Press, vol. 83, p. 118.
- Cost of Producing a Ton of Copper. M. & M., vol. 28, p. 526. ½ column.
- THE COST OF PRODUCING COPPER IN ARIZONA. By J. R. Finlay. E. & M. J., vol. 86, p. 37. 5½ columns. I.
- Costs and Profits of Production of Arizona Copper. Min. & Sci. Press, vol. 43, p. 134. 1½ columns.
- COST OF PRODUCING COPPER. E. & M. J., vol 86, p. 76. 2 columns.

- COST OF PRODUCING THE WORLD'S SUPPLY OF COPPER By J R Finlay E. & M J, vol. 86, p 165. 9½ columns.
- Official Reports of Costs of Producing Copper. By A. R. Townsend. E. & M. J., vol 86, p 555 11 columns.
- See also THE COPPER TRADE
- Cost of Ore-Production in South Africa E. & M J, vol. 76, p 121
- Cost of Gold Production. E. & M. J, vol 61, p. 395. 1½ columns.
- WHAT IS THE COST OF PRODUCING GOLD AND SILVER? E. & M. J, vol. 51, p. 437. ½ column.
- Cost of Production in the Republic District, Washington. E. & M J., vol 74, p 74.
- See also The Development and Probuction of Precious Metal Mining.
- COST OF PRODUCING OLD RANGE IRON (BESSEMER) ORES E. & M. J., vol. 83, p. 717.
- Cost of Production of Iron. T. A. I M. E, vol 17, p. 123.
- Cost of Production of Ore (Iron) in Lake Superior Region. M. & M., vol 19, p. 413.
- See also THE IRON TRADE.
- COST OF PRODUCING BRAZILIAN MICA. T. I. M. & M, vol. 12, p. 357. Table.
- COST OF PRODUCTION OF LOW-GRADE PHOSPHATE-ORES, CANADA. T. A. I. M. E., vol. 21, pp. 179, 183, 184, 185.
- Costs and Profits in Silver-Lead Ore Production By J. R. Finlay. E. & M. J., vol. 85, p. 1279. 11 columns
- THE COST OF PRODUCING SILVER. E. & M. J., vol. 55, p. 146. 1½ columns.
- THE COST OF PRODUCING SILVER.

 Min. & Sci Press, vol. 66, p. 114.

 1 column.

- THE COST OF SILVER Min. & Sci. Press, vol 66, p 166 1 column.
- THE PRICE OF SILVER Min. & Sci. Press, vol 66, p 196 12 columns.
- Cost of Production of Silver. Min. & Sci. Press, vol 67, p 34. 1 column
- WHERE SILVER IS PRODUCED AT A COST OF 23 CENTS PER OUNCE. Min. & Sci. Press, vol 77, p 451 ½ column
- See THE DEVELOPMENT AND PRO-DUCTION OF PRECIOUS METAL MIN-ING.
- COST OF SULPHUR PRODUCTION IN SIGHY. E. & M. J., vol. 20, p. 408.

Cost of Preserving Mine Timber

- Cost of Preserving Timbers by Various Methods R R Construction, Webb, p. 229 2 pages.
- Cost of Treatment of Timber for Use in Mines T. F I M. E, vol. 10, p 533.
- PROTECTING STEEL FROM CORROSION.

 By R B. Woodworth Mm. &
 Sci. Press, vol. 99, p 560. 13 columns.
- See also Preservation of Mine Tim-BER.

Cost of Prospecting

- COST OF PROSPECTING WITH A KEYSTONE DRILL FOR COPPER IN NEVADA. E. & M. J., vol. 83, p. 804. $\frac{2}{3}$ column.
- Cost of Prospecting with Churn Drill. Min. & Sci Press, vol. 93, p. 786. Table.
- Cost of Prospecting in Zinc Fields of Wisconsin. E. & M. J., vol. 81, p. 1233. 2 columns.
- COST OF CHURN-DRILL PROSPECTING. E. & M. J., vol. 80, pp. 920, 921 and 922.
- Cost of Churn and Diamond Drilling in Missouri. E. & M. J., vol. 80, p. 244.

- COST OF DIAMOND DRILL PROSPECTING UNDERGROUND AT THE ESPERANZA MINE, EL ORO, MEXICO Min & Sci. Press, vol 99, p. 825. Table
- COST OF PROSPECTING BY DIAMOND DRILL The Witwatersrand Goldfields, pp 147, 148.
- Cost of Test Drilling on Misabi Range E. & M J, vol. 75, p 896.
- Cost of Test Drilling on Vermillion Iron Range E. & M. J., vol. 75, p. 966.
- Cost of Prospecting Auriferous Gravel Deposits by Drill. Min. & Sci. Press, vol. 80, p. 120.
- COST OF PROSPECT DRILLING IN ALLUVIAL DEPOSITS AT OROVILLE, CALIFORNIA. T I. M. & M., vol 12, p 459. Table.
- See also Cost of Drilling and Boring
- Cost of Prospecting for Dredging. E & M. J, vol. 85, p. 1087. 2 column
- See also Prospecting, Etc.

Cost of Pumping and Bailing

- COMPARATIVE COST OF RAISING WATER BY DIFFERENT SYSTEMS IN THE TRANSVAAL T. I. M. & M, vol. 16, p 230. Table.
- THE COST OF PUMPING AT THE SHORT MOUNTAIN COLLIERY OF THE LYKENS VALLEY COAL COMPANY. By R V. NOITIS. T. I. M. E., vol. 34, p. 106
- COST OF PUMPING PLANT AND RUNNING EXPENSES AT SIERRA MOJADA, MEXICO. T A. I. M. E, vol 15, D. 570.
- COST OF PUMPING AT LEADVILLE, COLORADO. Min. & Sci. Press, vol. 82, p. 282. Table.
- Cost of Pumping on the Rand. Witwatersrand Goldfields, p. 269
- Cost of Davey Differential Pump at the C. & C. Shaft, Comstock Lode, Nevada. Min. & Sci. Press, vol. 90, p. 74.

- Cost of Pumping on the Comstock E. & M. J., vol. 82, p. 1210.
- COST OF PUMPING WITH COMPRESSED AIR. T. F C M. I, vol. 2, p 229.
- See also Compressed Air Pumping.
- Cost of Cornish Pump Work on the Rand. Gold Mines of the Rand, p. 172. Table, p. 259.
- Cost of Pumping at Galena, Kansas: Cornish and Steam Pump Work. Univ. Geol. Sur. of Kans., vol. 8, p. 346. 3 pages
- See also Cornish Pumps.
- COST OF PUMPING AT THE SHORT MOUNTAIN COLLIBRY OF THE LYKENS VALLEY COAL COMPANY IN DAUPHIN COUNTY, PENNSYLVANIA. By R V. Nortis M & M., Vol. 23, p. 413. 3 columns.
- Cost of Pumping by Electricity E. & M. J., vol. 47, p. 545. Table
- Cost of Pumping by Steam Pumps. Miner's Pocket Book, Lock, pp 330, 331, 332. Table.
- Cost of Electrical Pump Work. Miner's Pocket Book, Lock, p. 333. Table.
- Cost of Electric Pumping in Collieries Min. & Sci. Press, vol 56, p. 135. ½ column
- COMPARATIVE COST OF ELECTRIC AND STEAM PUMPING Min & Sci. Press, vol. 63, p. 2. 1 column.
- See also Electrically Driven Pumps, and Pumps for Mine Use.
- EXPENSE OF PUMPING WATER BY WINDMILL. E. & M. J., vol. 33, p. 260. Tables.
- THE COST OF BAILING. Min. & Sci. Press, vol. 90, p. 201. 2 columns.
- Cost of Pumping and Bailing in the Deep Level Mines of the Rand. M. & M., vol. 26, p. 475. Table.
- COST OF WINDING WATER. T. F. I. M. E., vol. 13, p. 81.
- See also Bailing Water, and Pumps FOR MINE Use.

Cost of Reduction

- Cost of Stamp-Milling. T. A. I. M. E, vol. 23, p. 567.
- Cost of Stamp Milling. Min. & Sci. Press, vol 81, p. 560. Table.
- COST PER TON OF ROCK STAMPED. Iron Ore. T. A. I. M. E., vol. 21, pp. 548, 549.
- ECONOMY IN AUTOMATIC ORE FEEDERS. Min. & Sci Press, vol. 87, p. 19.
- Cost of Hand vs. Machine Feeding Stamp Batteries, Gilpin County, Colorado. E. & M. J., vol. 54, p. 246
- COMPARATIVE COST OF STAMPS AND ROLLS T. I. M & M., vol 7, p. 141. Tables.
- Cost of Stamping in Australia E. & M. J., vol. 36, p. 182. \(\frac{2}{3}\) column.
- Cost of Erecting a Stamp Mill —20 Stamps, South Africa. Min. & Sci. Press, vol. 90, p. 105 Table.
- COMPARISON OF CURRENT COSTS PER TON OPERATING WITH 10 AND 20 STAMPS. Min & Sci. Press, vol. 76, p 177. Table.
- COST OF SHOES AND DIES OF DIFFER-ENT MATERIAL Min. & Sci Press, vol. 89, p. 224.
- Cost and Working-Results of Shoes and Dies of Different Materials. T. A. I. M. E , vol 35, p. 594. Table.
- See also STAMP MILL PRACTICE.
- Cost of Wear of Stamps and Rolls. E. & M. J., vol. 37, p. 461.
- COST OF WEAR OF ROLL SHELLS AND PULVERIZERS ON THE RAND. T. I. M. & M., vol. 7, p 135. Table.
- See also Rolls: Construction and Operation.
- Cost of Dry Crushing Gold Min. & Mill. W. Aus., p. 247.
- Cost of Dry Crushing Mills. J. C. & M. Soc., S. A., vol. 1, p. 815.
- Costs of Dry Crushing. Gold Min. & Mill. W. Aus., pp. 245, 248. Table.

- Cost of Mill Spares: Dies, Shoes, Cams, Cam-Shafts, Stems, etc Gold Min & Mill W Aus, p. 456. Table.
- Cost of Fine Grinding in Western Australia By W Broodbridge. Min Mag, Feb, 1905, p. 175.
- Cost of Operating Huntington Mill Gold Min & Mill W. Aus, pp. 220, 222. Tables
- Cost of Crushing with Ball Mill. Gold Min. & Mill. W Aus., p 247.
- COST OF OPERATING TUBE MILLS ON GOLD ORES. Mm. Mag., vol 11, pp. 411, 412, etc.
- COST OF GRINDING BY TUBE-MILLS AT EL ORO, MEXICO. T. A. I. M. E., vol. 37, p. 23. 1 page Tables
- Cost of Tube Mill Operation P. C. M. & M Soc S. A., vol 8, p 12. 1 column
- Cost of Reducing by Tube-Mill. P. C. M & M. Soc S. A., vol. 6, p. 314. Note
- COST OF TUBE MILL WORK AT THE COMBINATION MINE, GOLDFIELD, NEVADA. M. & M, vol. 27, pp. 298 and 299. ½ column
- Cost of Tube-Mill Lining. Min & Sci. Press, vol. 93, p. 108. Table.
- See also Fine Crushing by Mills, Etc.
- COST OF CRUSHING, WESTERN AUSTRALIA. Gold Min. & Mill. W. Aus., p. 248.
- COMMUNICATION ON THE COST OF CRUSHING HARD HEMATITES T. L. S. M. I., vol. 3, p. 93. 1 page.
- See also Crushers, ETC.
- Cost of Breaking Ore by Machinery with a 100-ton Capacity Plant E. & M. J., vol. 39, p. 296. Table.
- Cost of Reduction of Ore: Nevada and California Min. & Sci. Press, vol. 18, p. 345. Table.
- Cost of Reduction of Gold-Zinc Slimes. Mm. & Sci. Press, vol. 75, p. 123. Table.

- COST OF CRUSHING AND SEPARATING COPPER ORES AT THE ATLANTIC MINE, MICHIGAN E. & M. J., vol. 55, p. 53. ½ column.
- COST OF CRUSHING OXIDIZED ORE AT MOUNT MORGAN IN BALL MILLS AND ROLLS E. & M J., vol 74, p 50. Table
- COST OF REDUCTION OF GOLD AND SILVER ORES Min. & Sci. Press, vol 30, p 414.
- Cost of Reduction in a Silver-Mill. T A. I M. E, vol. 11, p. 100.
- Cost of Loss of Coal by Breakage in Storage Bins E. & M. J, vol. 84, p 645
- See also The Reduction of Ores, Erc.

Cost of Rope

- Cost of Lang's Lay Winding-Ropes. P. C. M & M. Soc S. A., vol. 7, p. 189. Table
- COST OF WIRE ROPE FOR TON COAL HAULED. Second Geol. Sur. Pa., A. C., p. 261. Table.
- See also Ropes, Chains, Couplings, Etc., and Kinds of Wire Ropes, Etc.

Charges, Royalties, Taxes, etc.

- MINT CHARGES Min & Sci. Press, vol. 90, p. 409 Table.
- MINT CHARGES. E. & M. J., vol 38, p. 348. 2 columns
- ROYALTIES PAID BY LEASES AT GOLD-FIELD, NEVADA. Min. & Sci. Press, vol. 90, p 151.
- CORNISH MINES AND THE ROYALITIES THEY PAY. Min. & Sci. Press, vol. 67, p. 86. } column.
- RATE OF ROYALTY IN THE DEEP ALLUVIAL WORKINGS OF AUSTRALIA. T. I. M. & M, vol. 7, p. 110.
- ROYALTIES IN RHODESIA. Min. & Sci. Press, vol. 89, p. 255. † column.

- MEXICAN TAXATION ON BULLION: Costs and Charges. E. & M. J., vol. 75, p 410 1 column.
- COST OF OBTAINING A MINING CON-CESSION IN MEXICO. Min & Sci. Press, vol 88, p. 92.
- See also RATING AND TAXATION.

Cost of Sampling

- Cost of Sampling at Hailey, Idaho. M & M., vol 22, p. 204 Table.
- COST OF SAMPLING ORES BY MA-CHINES. T. A I. M. E, vol 20, p. 440.
- See also Sampling of Mines.

Cost of Shaft Sinking

- Cost of Shaft Sinking. E. & M J, vol. 83, p. 387. 12 columns.
- COST OF SHAFT-SINKING (CIRCULAR SHAFT). E. & M. J., vol. 81, p. 1198
- Cost of Sinking Through Moderately Hard Material: In Coal Mines. M. & M, vol 24, p 144
- Cost of Shaft-Sinking with Rock-Drills. T. F. I M E., vol 8, p 20
- COST OF SINKING CIRCULAR SHAFF. T. I. M. E., vol 38, p. 28. Table
- COST OF SHAFT-SINKING WITH SMALL MACHINES. Min & Sci. Press, vol. 93, p. 448. Table.
- COST OF SHAFT-SINKING. Min. & Sci. Press, vol. 74, p. 416. ½ column.
- RATE OF SHAFT SINKING AND COST. The Witwatersrand Goldfields, p. 189. 5 pages.
- SPMED AND COST OF SINKING SHAFTS. Second Geol. Sur. Pa., A. C., p. 73. 1 page.
- Cost of Sinking. E. & M. J., vol. 47, p. 11. Table.
- ESTIMATED COST OF SINKING SHAFT. M. & M., vol. 30, p. 256. 2 columns.

- Comparative Cost of Shaft Sinking. Min & Sci. Press, vol. 88, p. 224. ½ column.
- ESTIMATED COST OF SHAFT SINKING. P. C M. & M Soc. S A., vol. 10, p 412. Tables.
- Cost of Shaft Sinking. M. & M., vol. 29, p 518. ½ column. Tables.
- Cost of Sinking an Inclined Shaft. M. & M, vol. 31, p. 728. Table
- Cost of Cementation in Shaft-Sinking. E. & M. J, vol 86, p. 222. Table.
- COST OF SHAFT SINKING BY CEMENTA-TION AND FREEZING SYSTEMS. T I. M. E., vol. 31, p. 122. Table.
- Cost of Shaft Sinking by the Kind-Chaudron Method, England P. C. M, vol 2, pp. 201, 204, 205, 206. Tables.
- RECORD AND COST OF SHAFT SINKING BY THE KIND-CHAUDRON METHOD. E & M. J., vol. 81, p. 862
- COST OF SINKING DROP SHAFT THROUGH 35-FOOT STRATUM OF QUICKSAND. E. & M. J., vol. 81, p. 134. Table.
- COST OF SINKING THROUGH LOOSE MATERIALS, EUROPE P. C M., vol. 2, pp. 210, 212, 217. Tables.
- Cost by Freezing Process. P. C. M., vol. 2, pp. 227, 228, 230.
- COST OF SINKING THROUGH SAND AND GRAVEL BY USE OF TUBBINGS, ENG-LAND. T. I. M. E., vol 38, p. 320. Table.
- Cost of Sinking a Shaft with Iron Linings E. & M. J., vol. 20, p. 574. Table.
- See also SHAFT LINING, and COST OF SUPPORT.
- COST OF A SINKING PLANT FOR A DEPTH OF 500 FEET. M. & M., vol. 29, p. 462. Table
- COMPARATIVE COSTS OF HAND AND MACHINE WORK IN SEAFT SINKING ON THE RAND Witwatersrand Goldfields, pp. 194, 195, 196. Table.
- See also Cost of Drilling and Boring.

- Cost of Shaft Sinking on the Rand T. N S. I. M & M E., vol 10, p. 135.
- NOTE ON THE COST AND SPEED OF SINK-ING THE EAST SHAFT OF THE NEW KLEINFONTEIN COMPANY, BENONI, SOUTH AFRICA. By E. J Way. T A. I. M. E, vol. 35, p. 397. 2 pages.
- Cost of Shaft Sinking on the Rand T. I. M. & M, vol 15, pp. 345, 363 Tables.
- Cost of Shaft Sinking on the Rand. Witwatersrand Goldfields, pp. 189, 190, 191, 192, 193, 194. Tables.
- Cost of Shaft Sinking and Driving Winzes on the Rand Gold Mines of the Rand, p. 259. 1 page.
- COST OF SHAFT SINKING IN SOUTH AFRICA. Sch Mines Quart., vol 20, p. 382. 1 pages.
- Cost of Shaft Sinking on the Rand. Min. & Sci. Press, vol. 87, p. 217. Table.
- COST OF SHAFT SINKING IN SOUTH AFRICA. Eng. Cont., vol. 27, p. 125. 2 column.
- Cost of Shaft Sinking, Georgia. E. & M J, vol. 61, p. 617.
- COST OF SINKING THE EAST SHAFT OF THE NEW KLEINFONTEIN COMPANY, LIMITED. By E. J. Way T. I. M. & M., vol. 13, p 102 10 pages
- Variation in Cost of Sinking a 3900-foot Shaft at the Cinderella Deep. E & M. J., vol. 82, p. 1060. Table.
- SPEED AND COST OF SHAFT SINKING IN WESTERN AUSTRALIA. Gold Min. & Mill., W. Aus., p. 165. 3 pages.
- COST OF RAISING AND SINKING IN NEW SOUTH WALES. T. I M. & M., vol. 7, p. 151. Table.
- COST OF SHAFT SINKING AT THE VICTORIA MINE, BENDIGO, AUSTRALIA: the Deepest Gold Mine in the World, 1906. Min. & Sci. Press, vol 93, p 503. ½ column.
- COST OF SHAFT SINKING, SUTTER CREEK, CALIFORNIA. Min. & Sci Press, vol. 84, p. 35. Table.

- COST OF SHAFT SINKING, LINCOLN MINE, CALIFORNIA. Min. & Sci. Press, vol. 86, p. 25. Table.
- COST OF SHAFT SINKING ON THE MOTHER LODE, CALIFORNIA. Min. & Sci. Press, vol. 93, p. 683.
- COST AND RATE OF SHAFT SINKING ON THE MOTHER LODE, CALIFORNIA. T A. I M E, California Mines and Minerals, p. 166.
- COST OF SHAFT SINKING, CENTRE STAR MINE COMPANY, BRITISH COLUMBIA: Including Compressed Air, Drill Fittings and Labor. Miner's Pocket Book, Lock, p. 178. Table.
- Cost of Shaft Sinking: Transvaal, South Africa Miner's Pocket Book, Lock, pp 208, 209, 210. Table.
- Cost of Sinking Dominion No. 1 Shaft. J M. Soc. N S, vol. 3, p 111. Table
- THE COST OF SINKING PLANT, SHAFT SINKING AND LEVEL DRIVING IN THE DEEPEST LODES YET REACHED IN THE GOLD MINES OF NOVA SCOTIA. By W L. Libbey. J. M. Soc. N. S., vol. 9, p. 94. 4 pages.
- Cost of Shaft Sinking in England. P. C M., vol 1, pp. 136, 138, 141, 151, 152, 154. Tables.
- Cost of the Sinking of the Shafts of Sainte Marie at Pironnes. T. A. I. M. E., vol. 5, p. 128.
- COST OF A THREE-COMPARTMENT SHAFT AT FRISCO, IDAHO Min. & Sci. Press, vol. 94, p. 272.
- Cost of Shaft Sinking in India. T I. M. & M., vol 5, pp. 143 and 220.
- COST OF SHAFT SINKING AT GALENA, KANSAS. Univ. Geol. Sur. of Kansas, vol. 8, p. 341. 12 pages.
- Cost of Shaft Sinking Tin Mines, Malay Peninsula. T. I. M. & M., vol. 7, p 14
- COST OF SHAFT SINKING IN THE TIN MINES OF THE MALAY PENINSULA. Tin Deposits of the World, p. 58.

- COST OF SHAFT SINKING AT THE EL ORO MINES, MEXICO Min & Sci. Press, vol. 100, p. 519. Tables
- COST OF SINKING A MEXICAN SHAFT. M. & M., vol. 31, p. 275 $\frac{3}{4}$ column. Table
- Cost of Shaft Sinking: In an American Copper Mine Min & Sci Press, vol. 85, p 9. Table.
- Cost of Shaft Sinking in Randolph County, Missouri. E. & M. J, vol. 86, p. 6. 1½ columns
- DIFFICULT SHAFT SINKING, EMMA MINE, BUTTE, MONTANA. MIN. & Sci. Press, vol. 84, p. 77. ½ column.
- Cost of Shaft Sinking at Basin, Montana E. & M J, vol. 79, p. 1005 Table.
- COST OF SHAFT SINKING AT GOLD-FIELD, NEVADA. Min & Sci Press, vol. 94, p. 722.
- COST OF SHAFT SINKING AT GOLD-FIELD E. & M J., vol. 84, p 1106. 1 column.
- COST OF SHAFT SINKING AT THE COMBINATION MINE. Min. & Sci. Press, vol. 95, p. 436. Table
- Cost of Shaft Sinking in Wisconsin Zinc District. E & M. J, vol 81, pp. 1233 and 1234. Table
- COST OF SHAFT SINKING IN WISCONSIN ZINC FIELDS. E. & M. J., vol. 81, p. 1234. Tables.
- COST OF SHAFT SINKING IN THE POCO-HONTAS COAL FIELD. M & M., vol. 27, p. 283. Table.
- Cost of Shaft Sinking in the Pennsylvania Anthracite Fields. The Anthracite Coal Industry, Roberts, p. 25. 1 page
- Cost of Shaft Sinking in Western Pennsylvania. M. & M., vol. 30, p. 128. Table.
- COST OF SINKING AND CRIBBING THE ATCHISON DEEP COAL SHAFT, KAN-SAS. E. & M. J., vol. 74, p. 109.
- COST OF COLLEGEY SINKING AND EQUIPMENT IN BELGIUM. T. I. M. E, vol. 31, p. 698. Table.
- See also SHAFT SINKING.

Cost of Signaling

- COST OF COMPRESSED AIR MINE SIG-NALING. Min. & Sci. Press, vol. 85, p. 220 Table
- Cost of Installation of Compressed Air Signaling J. C M. I., vol 6, p. 167 Tables.
- See also Compressed Air, Electricity, etc., and Methods of Signaling.

Cost of Sizing

- COST OF SCREENING AND CLEANING COAL. T F. I. M E., vol 1, p. 93. COST OF SCREENING AND BANKING COAL, ENGLAND T. N. S. I. M. &
- M. E., vol. 10, p. 256. Table.

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- Cost of Screen Construction. T. N. S. I. M. & M. E., vol. 10 p. 258. Tables.
- See also Kinds of Screens, ETC.

Cost of Sorting

- Advantages of Hand Sorting: Costs. E & M. J., vol. 81, p. 1101.
- Cost of Sorting by Hand. Zinc Ores Rept. Zinc Comm., Canada, p. 79. 1½ pages.
- SAVING DUE TO SORTING AT THE RAND MINES. Gold Mines of the Rand, p. 156. Table.
- Cost of Hand Sorting on the Rand. E. & M. J, vol. 88, p. 1069. Table.
- Cost of Ore Sorting, South Africa. Sch Mines Quart., vol. 21, p. 24.
- COST OF SORTING AND CRUSHING ON THE RAND. Gold Mines of the Rand, p. 260.
- COST OF SORTING ORE AT THE HECLA MINE, COUR D'ALENE DISTRICT. E. & M. J., vol. 88, p. 1106. Table.
- Cost of Hand Sorting vs. Milling: Comparative Costs Min. & Sci. Press, vol. 88, p. 41. Table.
- See also Hand Dressing, Sorting.

Cost of Stoping

COST OF STOPING. P. C. M. & M Soc. S. A., vol. 7, p. 5. 5 columns. Tables.

- Cost of Stoping on the Rand. P C. M. & M. Soc S A., vol 9, p. 225. Tables.
- Cost of Stoping, South Africa. E & M J, vol. 75, p. 597
- COST OF STOPING IN THE WHITE BEAR MINE. J C. M. I., vol. 11, p. 535. Table
- Cost of Stoping in Veins of Various Widths Min. & Sci. Press, vol. 85, p 322.
- COST OF STOPING IN WESTERN AUSTRALIA Gold Min. & Mill W. Aus., pp. 199, 204, 205, 206, 207, 208. Tables.
- COST OF STOPING IN WESTERN AUSTRALIAN MINES Gold Min. & Mill. W. Aus., p. 507
- COST OF STOPING AT THE GOLDEN HORSESHOE, WESTERN AUSTRALIA. Gold Min. & Mill W. Aus., p. 616. Table.
- Cost of Stoping at Galena, Kansas. Univ Geol. Sur. of Kansas, vol 8, p 343. 1 page.
- COST OF DRIFTING AND STOPING BY
 HAND AND MACHINES IN COPPER
 MINES Min & Sci. Press, vol. 48,
 p. 304. 7 column.
- See also Cost of Tunneling.
- Cost of Stoping in Tin Mines, Ma-LAY PENINSULA. Tin Deposits of the World, p 58.
- COST OF STOPING AT THE ESPERANZA MINE, MEXICO Min. & Sci. Press, vol. 99, p. 846. 2 columns. Table.
- Cost Comparison Between Stripping Narrow Reefs and Stoping Them with Waste. E. & M. J, vol. 76, p. 883. 1 column.
- Approximate Yield and Cost of Stoping per Ton of Ore Broken. Min. & Sci. Press, vol. 71, p. 302. Table
- Cost of Stoping in the Tin Mines, Malay Peninsula. T. I M. & M., vol. 7, pp. 13 and 14.
- See also Methods of Stoping in Mines.

Cost of Stripping

- Cost of Steam Shovel Mining. E. & M J, vol. 84, p. 439. 1 column.
- Cost of Stripping Clinton Iron Ore in New York. E. & M. J, vol. 86, p 1152 ½ column.
- COST OF MINING AND STRIPPING IRON ORE. E & M J, vol 85, p. 115. ‡ column.
- COST OF STRIPPING IRON ORE WITH STEAM SHOVEL T L. S. M. I, vol. 10, p 153. Tables.
- Cost of Stripping Anthracite Coal.
 The Anthracite Coal Industry,
 Roberts, p 21. 1 page
- COST OF STRIPPING TOP DIRT BY STEAM SHOVEL AT OROVILLE, CALIFORNIA, IN AURIFEROUS GRAVEL DREDGING. E & M. J, vol. 81, p. 220.
- See also Open Cut Mining, ETC.

Cost of Supplies

- Cost of Mine Supplies: Timber, Coal, Etc Min. & Sci. Press, vol. 52, p 256 \(\frac{3}{4}\) column.
- Cost of Supplies at Goldfield, Nevada. E. & M. J., vol. 82, p 342.
- Cost of Supplies at Tonopah, Nevada. E & M. J., vol. 82, p. 107.
- MINING SUPPLIES AT MELBOURNE, AUSTRALIA T. I. M. & M., vol 7, p 111. 2½ pages.
- COST OF MINING AND MILLING SUP-PLIES IN RHODESIA Min. Mag., vol. 13, p. 7. Table.
- See also Cost of Mine and Mill Construction

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- Cost of Timber and Timbering M. & M., vol. 25, p. 458. Table.
- COST OF MINE TIMBERING. Min. & Sci. Press, vol. 86, p. 241. 1 column.
- Cost of Mine Timbering. Min. & Sci. Press, vol. 88, p. 127. Tables.

- ESTIMATION OF COST IN CONNECTION WITH TIMBERING. T. Au I M E., vol. 7, p. 84. 10 pages.
- Cost of Timbering in the Soft Hematite Ores of Furness, England T. F. I. M. E, vol 8, p. 49.
- RELATIVE COST OF MAINTAINING THE TIMBER IN ANTHRACITE MINES, PENNSYLVANIA. The Anthracite Coal Industry, Roberts, p. 29.
- COST OF TIMBERING AT GALENA, KAN-SAS: Shaft Cribbing; Drift Timbering; and Placing Cogs Univ. Geol. Sur. of Kansas, vol. 8, p 344 2 pages.
- Cost of Timber in Mexico. T. A I. M. E, vol 35, p 24.
- Cost of Mine Timber on the Rand —1902. Witwatersrand Goldfields, p. 458. Table.
- COST OF TIMBERING AT LAKE VIEW CONSOLS AND GOLDEN HORSESHOE, WESTERN AUSTRALIA. Gold Min & Mill. W Aus, pp. 182 and 214 Tables
- Cost of Timbering in Western Australian Gold Mines. Gold Min & Mill W Aus., pp. 178, 214 \frac{3}{4} page.
- Cost of Drawing Chocks in Longwall. Coll Working and Management, p. 94
- Cost of Pillaring in Longwall. Coll. Working and Management, p. 94.
- COST OF SETTING TIMBER BALKS.
 Coll. Working and Management,
 p 94.
- Cost of Pigsty Support in Mines. P. C. M. & M. Soc. S. A, vol 7, p. 367. ½ column.
- Stores: Costs of Stulled and Filled. E. & M. J, vol. 84, p. 1005. Table.
- THE COST OF TIMBER IN MINING. E. & M. J., vol 46, p. 189. \(\frac{1}{2}\) column.
- MINE COSTS AND THE TIMBER SUPPLY. Min. & Sci Press, vol. 96, p. 504. 11 columns.

- COST OF TIMBER IN SOUTH AFRICA Min & Sci. Press, vol. 94, p. 339 Table.
- Cost of Timber Delivered and Piled at the Empire Mine, California in 1884. Min. & Sci. Press, vol. 49, p. 198.
- COST OF LUMBER AND TIMBER AT THE PORTLAND MINE, CRIPPLE CREEK, COLORADO. T A I. M E, Feb., 1906, p 1327 Table
- Cost of Timber on the Comstock. Min. & Sci. Press, vol 48, p. 258.
- Cost of Timber at Tonopan Min. & Sci Press, vol 86, p. 20
- Cost of Timber at Tonopah, Nevada. E & M. J., vol. 82, p. 108.
- PRICE OF ROUND TIMBER AND LAG-GING IN THE WEST. Mm. & Sci. Press, vol. 92, p. 82.
- PRICE OF TIMBER, VENEZUELA. T. I. M & M, vol. 9, p. 108. Table.
- COST OF TIMBER AT THE EL CALLAO MILL, VENEZUELA. T I. M. & M., vol. 9, p. 108.
- See also Methods of Timbering.
- Cost of Timbering a Shaft: Considerations Min. & Sci Press, vol. 87, p 147.
- COST OF SHAFT LINING AT THE PIONEER MINE, ELY, MINNESOTA J. C. M. I., vol 7, p 361 Table.
- COST OF CRIB-SET FOR DEEP SHAFT. T. I. M. &. M, vol. 13, p. 515. Table.
- COST OF TIMBERING AT ASHLAND SHAFT, MICHIGAN. T. L. S. M I., vol. 9, p. 37 Table
- Cost of Timbering Shaft, Sutter Creek, California. Min. & Sci. Press, vol. 84, p. 35. Table.
- COST OF LINING MINE SHAFTS WITH STEEL. T. L. S. M I, vol 8, pp. 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56.
- Cost of Sinking, Raising and Timbering Shafts, Winzes and Raises at Ashland Mine, Michigan. T. L. S. M. I., vol. 9, p. 37. Tables.

- COST OF TIMBERING SHAFT No. 2, TAMARACK. T L. S M. I., vol. 7, p. 54.
- Cost of Concrete Shaft Lining Min. & Sci. Press, vol. 89, p. 340. Table.
- Cost of Concrete (Elliptical)
 SHAFT LINING AT BRIDGEPORT,
 PENNSYLVANIA M & M, vol 27,
 p. 110 Table
- Cost of Making Watertight a Shaft Lining with Cement T I. M. E., vol. 30, p. 653. Table.
- Cost of Cement in Shafting Compared with Brick and Iron. T. F. I. M. E , vol. 4, p 345
- Cost of Concrete Shaft Lining E. & M J., vol. 88, p 600 3 column.
- Cost of Lining Various Forms of Shafts with Concrete M & M., vol. 30, p 632 Tables.
- COST OF CONCRETE LINED SHAFT AT BRIER HILL, MICHIGAN. E. & M. J., vol 89, p 971. $\frac{2}{3}$ column
- COST OF REINFORCED CONCRETE LIN-ING FOR GALLERIES. France. Concrete and Constructional Engineering, London, vol. 2, p 332. Table.
- Cost of Making Artificial Roof of Concrete for Thick Coal Seams. T. I. M E, vol 31, p. 26. 2 pages.
- See also Use of Concrete in Mines.
- Cost of Shaft Tubbing P. C. M, vol 2, p. 162 Table.
- See also SHAFT LINING, ETC.
- COST PER TONNAGE OF SQUARE SET TIMBERING. J. C M. I, vol. 6, p. 136.
- COST OF DOUBLE SET OR DOUBLE Transferring per Set Rept. Inspr. Mines, Pa., 1878, p. 232
- Number of Square Sets Put up in One Day, with Labor Cost. Mm. & Sci. Press, vol. 85, p. 369.
- See also SQUARE SET TIMBERING.
- COST DATA PER SQUARE SET ROOS-LAND, BRITISH COLUMBIA. Min. & Sci. Press, vol. 85, p. 159. Tables.

- Cost of Timbering per Ton of Coal Raised. T. I. M. E, vol. 16, p. 239. Table.
- COST OF TIMBER PER TON OF COAL MINED, IN THE ANTHRACITE MINES OF PENNSYLVANIA M. & M., vol. 27, p 148
- PRICE OF MINE TIMBER AT OREGON MINES M & M., vol 19, p 15.
- Cost of Framed Timber Trestles. R. R. Construction, Webb, p. 169.
- Comparative Costs of Wood and Steel for Mine Props. M & M., vol 27, p 420
- RELATIVE COST OF TIMBER AND STEEL PROPS E & M J, vol 64, p. 309.
- COST OF STEEL SHAFT LINING. T. L. S M. I, vol 10, p 164 Table
- See also Cost of Shaft Sinking.
- Cost of Masonry Support in Almaden Mines Min. & Sci. Press, vol. 37, p 342 Tables.
- COST OF MASONRY ARCHES FOR SUP-PORT OF HANGING WALLS IN TILLY FOSTER IRON MINES. Sch Mines Quart, vol 6, p. 316.
- COST OF UNDERGROUND MASONRY WORK Coll. Working and Management, p 94 Table.
- COST OF PACKWALLING IN ENGLISH
 COAL MINES LONGWALL Coll.
 Working and Management, p. 220.
 Table.
- COST OF TIMBERING IN PANEL AND LONGWALL. Coll. Working and Management, pp. 244–245. Tables.
- Cost of Masonry Retaining Wall. J. W. Soc. E., vol. 3, pp. 1319, 1320, 1327, 1328, 1331
- COST OF DODSON CULM PLANT AND OTHERS. M. & M., vol. 18, p. 389. Table.
- COST OF WATER PACKING OF EXCAVA-TIONS AT A COLLIERY IN SILESIA. E. & M J., vol. 78, p. 580.
- COST OF FILLING COAL SHAMS WITH CONVEYORS. T. I. M E, vol. 29, p. 460. Table.

- Cost of Filling a Coal Sham. T. I M. & M., vol. 15, p. 380. 3 pages.
- COST OF STOWING PER CUBIC YARD FOR 1890, AT COBEZAS DEL PASTO, SPAIN T. A. I. M. E., vol. 21, p. 100.
- Cost of Culm Flushing. M. & M, vol. 18, pp. 390, 391.
- Cost of Hydraulic Stowing in Westphalia, Germany. T. I M E., vol. 37, p. 269. 2½ pages Tables
- See also Packing Mine Workings, ETC
- COST OF WORKING BY GOBBING-UP, USING WASTE OF MINE, AND OBTAINING OTHER WASTE FROM THE SURFACE. T. A. I. M. E, vol 2, p. 111

See also Kinds of Support.

Cost of Surveying

- COST OF MINERAL SURVEYS IN ARIZONA. Min. & Sci. Press, vol. 85, p. 132. 1 column.
- Cost of Mineral Surveys, Etc. Min. & Sci Press, vol. 88, p 333. ½ column.
- NEW SURVEY RATES. Min & Sci. Press, vol. 85, p 2 ½ column
- Cost of Patenting Mining Claims. Min. & Sci Press, vol. 95, p 612. ½ column. Table.
- Cost of Securing Patent to Mining Claim. Min & Sci. Press, vol. 83, pp. 97 and 191.
- Cost of MINE PATENTS By F. W Wagenen. Min. & Sci Press, vol 84, p. 6. 4 columns.
- Cost of a Mexican Pertenencia Min & Sci. Press, vol 85, p 32.
- See also Claims, Taxes, ETC
- Table of Fees for Miners' Certificates, Erc, in Canada. Rept. Zinc Comm., Canada, pp. 371 and 375. Table.
- Cost of Licences on the Rand: Prospectors' and Diggers' Licences. T. N S I. M. & M. E., vol. 10, p. 143.

- Surveys and Engineering Expenses.
 R. R. Construction, Webb, p. 394.
 Cost of a Colliery Survey M &
 M, vol 30, p. 96 ½ column Table.
 p. 159 3½ columns.
- See also Underground Surveys.
- Cost of Making a Colliery Map. M & M, vol. 30, p. 159. Table.
- COST OF GEOLOGICAL (EUROPEAN) SURVEYS. By E. A Schneider. E. & M. J., vol. 62, p. 342, 2 columns; p. 366, 2 columns; p. 392, 1 column. See also Surveying.

Cost of Tramming

- COST OF SHOVELING AND TRAMMING. P. C M. & M Soc. S. A, vol. 7, p. 8. 2 columns.
- Cost: Comparison of the Tramming, and the Cost of Tramming with Electric Motors, at New Stassfurt, Zaukeroda, and Hohenzollern. T A. I. M. E., vol 20, p. 365.
- Cost of Tramming in Mine: In Transvaal. Min. Mag., vol. 12, p. 278. Table.
- Cost of Tramming on the Rand. E & M. J, vol 81, p 851 Table. Cost of Tramming on the Rand. Witwatersrand Goldfields, p. 298.
- Cost of Tramming Ore, Western Australia. Gold Min. & Mill W. Aus., pp 161, 616 Tables.

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- COST OF TRAMMING AT THE PORTLAND MINE, CRIPPLE CREEK, COLORADO. T. A. I. M. E., Bethlehem Meeting, Feb., 1906, p. 1327 Table
- COST OF TRAMMING ("PUTTING") IN ENGLISH COAL MINES. Coll Working and Management, p. 82 Tables. See also Cableways. etc., and Tram-
- See also Cableways, etc., and Tran ming and Mucking.

Cost of Operating Tramways

- COST OF TRAMWAY. E & M. J, vol. 76, pp. 269, 308.
- Cost of Transporting Ore by Ropeway. Min. & Sci. Press, vol. 72, p. 141.

- COST OF ROPE TRAMWAYS PER RUN-NING FOOT. E & M. J., vol. 76, p. 513.
- Cost of Operating Tramways. E & M. J., vol 76, p. 515
- APPROXIMATE PRICE LIST OF WIRE-ROPE TRAMWAYS ON THE ENDLESS ROPE SYSTEM Aerial or Wire-Rope Tramways, p. 194. Table.
- ESTIMATING COST OF TRAMWAYS.

 Aerial or Wire-Rope Tramways,
 pp 108, 113, 148, 167, and 196.

 Tables
- COST OF TRANSPORTATION BY ROPE-WAY AT THE PIERREFITTE MINES, FRANCE. T. A. I M. E, vol. 39, p. 390 ½ page.
- COST OF MINING AND CONVEYANCE OF ORE. By Bleichert Rope System at Somorrostro, Mexico. Min. & Sci. Press, vol. 39, p. 215 Table,
- COST OF TRANSPORTING ORE ON THE BLEICHERT TRANSAY AT THE SMUGGLER-UNION MINE, TELLURIDE, COLORADO. T. A. I. M. E, vol 26, p. 458.
- COST OF CONSTRUCTION OF A TRAM-WAY, WHICH HAS 38 BUCKETS, WEIGHT 500 LBS. EACH, TOTAL CAPACITY 5000 TONS PER MONTH. T. A. I. M. E., vol. 26, p. 458.
- COST OF OPERATING HALLIDIE WIRE-ROPE TRAMWAYS. Aerial or Wire-Rope Tramways, pp. 99, 100, 108, 113, 137. Table
- COST OF OPERATING THE BLEICHERT WIRE-ROPE TRAMWAY. Aerial or Wire-Rope Tramways. pp. 137, 147, 157, 163, 167, 171.
- Cost of Construction and Equipping Three Miles of Hallidie's Cable Railroad, Double-Track. Min. & Sci. Press, vol 43, p. 157. Tables
- HANDLING ORE AT THE COURD'ALENE MINES BY TRAMWAYS. T. A. I M. E, vol. 33, p. 270. § page.
- COST OF OPERATING CABLEWAY AT CHICAGO CANAL. The Mechanical Handling of Material, p. 217.
- See also Cableways, Erc.

Cost of Transportation

- Cost of Narrow-Gauge Railroad Construction and Operation. Min & Sci Press, vol 92, p. 101. † column.
- COMPARATIVE COST OF NARROW-GAUGE RAILROADS. Min. & Sci. Press, vol. 21, p. 27. ½ column.
- COST OF CONSTRUCTION AND COM-PARATIVE COST OF OPERATING NAR-ROW GAUGE RAILROADS. Min. & Sci Press, vol. 41, p. 6. 1 column.
- COST OF A NARROW-GAUGE RAILROAD AT MOJADA, MEXICO T. A. I. M. E, vol 15, p 568.
- Cost of Railroad Making per Mile for Several Years. T. F I. M. E., vol. 8, p. 451.
- COST OF CONSTRUCTING A RAILROAD OF GIVEN LENGTH, ETC. M. & M., Apr., 1902, p 424.
- COST OF CONSTRUCTION OF NARROW-GAUGE RAILROAD. Min. & Sci. Press, vol. 38, p. 194. Table
- THE COST OF A TRAIN-MILE. Min. & Sci Press, vol. 78, p. 404. 3 column.
- Cost of Stopping a Train. Min & Sci. Press, vol. 70, p. 264. 2 column.
- Cost of Power for Trolley Cars.

 Min. & Sci Press, vol. 75, p 101.

 column.
- Cost of Operating Locomotives. Min. & Sci. Press, vol. 38, p 351. 4 column.
- WHAT RAILROAD TRAINS CAN BE RUN FOR. Mm & Sci. Press, vol 51, p. 263 \(\frac{2}{3}\) column.
- Cost of Moving Railroad Trains. Min. & Sci. Press, vol 51, p. 418. 13 columns.
- COST OF MAINTENANCE, REPAIRS, MOTIVE POWER, AND TOTAL OPERATING EXPENSE OF ENGLISH AND AMERICAN RAILROADS. E. & M. J., vol. 42, p. 38, table; p. 218. Table.
- ESTIMATING WORKING COST OF OPER-ATING A RAILFOAD. E. & M. J., vol.

- 30, p. 410, 2½ columns; p 380, 1 column, p 128, 1½ columns
- Speed Cost in Atlantic Steamers. E & M. J., vol. 42, p 205 ½ column.
- Cost of Transportation. Min & Sci. Press, vol. 91, p. 53. ½ column.
- Mountain Transportation Costs.

 Min. & Sci Press, vol. 88, p. 309.

 1½ columns.
- Cost: Loss of Shipping Concentrates Min & Sci. Press, vol 93, p. 139.
- CHEAP OCEAN TRANSPORTATION: A Raft of Logs Min & Sci Press, vol. 71, p 83. 5 columns
- Cost of Railroad Transportation. R. R. Construction, Webb, p. 402. ½ page
- Cost of Transportation: by Ocean, River, Lakes, Canals, Railroads, Min & Sci. Press, vol. 30, p. 134. Table.
- Comparison of Cost of Shipping and Refining Bullion and Matte. T A I. M. E, vol. 16, p 261
- COMPARATIVE COST OF PASSENGER
 TRANSPORTATION BY STEAM, HORSE,
 CABLE, ELECTRICITY Min & Sci.
 Press, vol. 65, p. 250. 7 column
- THE COMPARATIVE CONDITIONS AND COSTS OF TRANSPORT BY RAILROAD AND CANAL By J S. Jeans T F. I. M. E., vol. 8, p. 432. 10 pages.
- Cost of Transport by Railroad and Canal, England T. N. S I M. & M. E, vol. 9, p. 344. Table.
- Cost of Railroad Transport per Ton per Mile. T. F. I M. E., vol 8, pp. 453, 454.
- COST OF HAULING ORE ON NARROW GAUGE RAILROAD IN SOUTHERN CALIFORNIA. Min. & Sci. Press, vol. 87, p. 231.
- COST OF TRANSPORTATION IN THE KLONDIKE, 1907 E. & M J., vol. 83, p 521 $\frac{2}{3}$ column

- Cost of Transportation of Iron-Ores of Lake-Superior District. T. F I M. E., vol 13, p 530 Table.
- Cost of Transport of Ore in Rhodesia. Min. & Sci. Press, vol. 90, p 106 Table.
- Cost of Shipping Zinc Ore to Europe, Rept. of Zinc Comm. Canada, p. 20. † page
- TRANSPORTATION, COSTS AND LABOR IN CENTRAL PERU By J C. Pickering E. & M. J, vol. 85, p. 589. 8½ columns I
- Freight and Treatment Charges in Silver Smelting in Mexico. T I. M. & M., vol 8, p. 246.
- Freight Rates on Ores. Min. & Sci. Press, vol. 63, p. 40. 1½ columns.
- RAILROAD RATES. Min. & Sci. Press, vol 98, p 334. 1½ columns.
- Lake Freight Rates for 1907. E & M. J., vol 83, p. 380.
- FREIGHT RATES: Chicago to Oregon. Min. & Sci. Press, vol. 85, p 186.
- FREIGHT RATES: San Francisco to Mexico. Min & Sci. Press, vol. 86, p. 67.
- FREIGHT RATES Utah and Nevada. Min & Sci Press, vol 91, p 15.
- STEAMER FREIGHTS TO WESTERN AUSTRALIA By A. G Charlton. Gold Min & Mill W Aus, p. 450. 2 pages.
- FREIGHT RATES ON MACHINERY FROM DETROIT TO WESTERN POINTS Min. & Sci. Press, vol. 84, p. 140.
- FREIGHT RATES IN THE WEST. Min. & Sci. Press, vol. 25, p. 40. ½ column
- FREIGHT RATES ON THE BAY, SAN FRANCISCO. Min. & Sci. Press, vol. 66, p 363. 2 columns
- RAILROAD RATES IN EUROPE AND AMERICA. Min & Sci. Press, vol. 75, p 361. Table.
- COMPARATIVE COST OF FREIGHT AND PASSENGER TRAFFIC Min & Sci. Press, vol 37, p. 22. † column.
- RAILBOAD RATES ON COAL. E & M. J., vol 66, p. 402.

- INDIANA COAL RATES E. & M. J, vol 80, p. 835 1 column.
- RAILBOAD TRANSPORTATION RATES IN THE ANTHRACITE COAL FIELDS. The Anthracite Coal Industry, Roberts, p 74 4 pages
- Cost of Freight on Coal from Jaffa to Jerusalem E. & M. J., vol. 78, p. 211.
- FREIGHT RATES ON COAL IN MISSOURI. E. & M. J, vol. 85, p. 270 ½ column.
- ILLINOIS COAL FREIGHT-RATES T. A. I. M. E., vol. 40, p. 72. Table
- RAILROAD RATE FROM BUTTE TO ANA-CONDA. E & M. J., vol 81, p. 1247.
- RAHLROAD RATES ON CRUDE OIL FROM TEXAS AND CALIFORNIA TO COPPER QUEEN MINE. E. & M. J., vol 81, p. 1247.
- FREIGHT RATES ON THE RAND (1895). Gold Mines of the Rand, p. 245. Table.
- FREIGHT RATES IN WESTERN AUSTRALIA. Gold Min & Mill. W. Aus., p. 444. 9 pages
- FREIGHT RATES FROM BROKEN HILL E. & M J., vol. 81, p. 421 ½ column.
- RAILROAD RATES ON CRIPPLE CREEK ORES. Min. & Sci. Press, vol. 95, p. 517. ½ column.
- FREIGHT RATES IN THE MONTEZUMA DISTRICT, COLORADO M & M., vol. 28, p. 503 2 column.
- FREIGHT RATES ON GOLD ORES IN COLORADO. Min. & Sci Press, vol. 100, p. 35. Table.
- FREIGHT RATES IN THE CRIPPLE CREEK DISTRICT M & M, vol. 28, pp 479–480. Tables
- FREIGHT RATES AT TONOPAH, NEVADA. E. & M. J., vol. 82, p. 107. Table.
- FREIGHT RATE FROM SODAVILLE TO TONOPAH PER TON (1901). Min. & Sci. Press, vol. 83, p. 192.
- FREIGHT RATES FROM BOISE TO ALL POINTS IN THE BASIN RANGE IN 1900. Min. & Sci Press, vol 81, p. 400.

- WAGON AND RAILROAD FREIGHT RATES AT TONOPAH. M & Sci Press, vol. 86, p. 20
- Transportation Into Goldfield Min. & Sci. Press, vol 90, p 150
- IRON-ORE FREIGHT RATES. E & M. J, vol 82, p 597
- Vessel Freight Rates on Iron-Ores T. A. I. M. E., vol. 16, p 197.
- FREIGHT RATES FROM THE COUR D'ALENE DISTRICT Min & Sci. Press, vol 101, p. 142 1½ columns
- COST OF SHIPPING ZINC ORE TO EUROPE: Freight Rates Min. Mag., vol 12, p 227. 2 columns.
- FREIGHT RATES ON ZINC ORE FROM SLOCAN TO FRANK Rept Zinc Com, Canada, p. 55. Table
- See also Transportation by Rail
- NOTE ON THE COST OF IRON RAILS AS MADE IN 1866 IN A LEADING ENGLISH RAILROAD COMPANY'S ROLLING MILL By P Barnes. T A I. M. E, vol 6, p 524.
- COST OF REPAIRS AND RENEWALS OF PILE BRIDGES. E & M J, vol 50, p. 313. 1 column.
- Cost of Snow Sheds and Toe Cribbing, Canadian Pacific Railroad. E. & M. J, vol. 47, p. 212.
- COST OF CONSTRUCTING A REINFORCED CONCRETE ARCH. Eng-Cont., vol. 27, p. 86. 3 columns
- Cost of Economic Centers for a Reinforced Concrete Arch Eng-Cont, vol. 27, p 30 7 columns.
- COST OF MASONEY (BRIDGE), ES-PECIALLY FOR RAILROAD WORK R. R. Construction, Webb, p. 400. Table
- Cost of Laying Mine Track E & M J., vol 86, p 135. 12 columns.
- COST OF MINE TRACK. M. & M, vol. 31, p. 727. Table.
- COST OF ELECTRICALLY WELDING RAIL-JOINTS. Eng-Cont, vol. 27, pp. 126 and 127. 2½ columns.
- Cost of Railroad Rails R R Construction, Webb, p 248. 1 page.

- COST OF RAILS PER MILE R R Construction, Webb, p 397. Table.
- Cost of Making Steel Rails. E. & M J., vol. 38, p. 296.
- Cost of Track Scales. M & M, vol 25, p. 458. Table.
- Cost of Track Laying. M. & M, vol 25, p. 458. Table.
- See also MINE ROADS AND TRACKS.
- Cost of Repairs to Mine Cars E. & M J, vol. 86, p. 135. 2 columns.
- See also MINE CARS, ETC.
- Cost of Railroad Cars. Min & Sci. Press, vol. 52, p 327. ½ column.
- BILLS OF MATERIAL AND COSTS PER RUNNING FOOT FOR BRIDGES AND VIADUCTS OF TIMBER. T. F I. M. E., vol. 8, pp. 131, 133, 137, 142.
- INCREASED COST OF MATERIALS FOR RAILROAD CONSTRUCTION. Eng-Cont., vol. 27, p. 39. 1½ columns.
- Cost of Submarine Cables Min. & Sci Press, vol. 92, p. 157.
- COST OF LAND AND LAND DAMAGES IN ENGINEERING WORK, ESPECIALLY RAILROAD CONSTRUCTION R. R. Construction, Webb, p. 394.
- Cost of Electrical Canal Haulage. Engineering, London, vol. 64, p. 252. 5½ columns; p. 347, 3 columns, p. 402, 3 columns; p. 428, 3 columns; and vol. 66, p. 728 Tables.
- COST OF CANAL-HAULAGE BY ELECTRICITY, STEAM, AND HORSE-POWER. T. F. I. M. E., vol. 8, pp. 440, 456, 478, and 480.
- Cost of Transportation on the Eric Canal. E. & M. J., vol 25, p. 239. 1 column.
- COST OF TRANSPORTATION OF AN-THRACITE COAL BY CANAL. The Anthracite Coal Industry, Roberts, p. 64, 1 page.
- COST OF CHICAGO DRAINAGE CANAL, COMPARED WITH OTHER WORKS OF ITS CLASS Engineering, London, vol. 63, p. 1. Table.
- See also Canal Transportation.

- Cost of Wagon Road Construction. E. & M. J, vol. 78, p 869.
- COST OF MATERIALS AND WAGES OF LABOR FOR PAVING WORK IN REPRE-SENTATIVE AMERICAN CITIES. Eng-Cont., vol. 27, p. 133. 10 columns.
- Cost of Haulage by Carts, Wagons, Wheelbarrows, and Scrapers. R. R. Construction, Webb, pp. 128, 139. 7 pages.
- Cost of Transportation: by Packtrains, Wagons, and Locomotives. By C. F. Lummis. McClures' Magazine, vol 26, No. 1, Nov , 1905, p 85.
- FREIGHT AND TREATMENT CHARGES ON CRIPPLE CREEK ORE. E. & M J., vol. 78, p. 1022. Table.
- Cost of Hauling by Wagon in San Juan Mountains, Four-Horse Team. E. & M. J, vol. 76, p. 82.
- Cost of Wagon Haulage in the Mountains of the West. Min. & Sci. Press, vol. 92, p. 51.
- FORMER COSTS OF TRANSPORTING AN-THRACITE COAL BY WAGON The Anthracite Coal Industry, Roberts, p 62
- Cost of Carrying (Haulage) in Wagons. T. N. S. I M. & M. E, vol. 10, p. 171.
- COST OF WAGON HAULAGE IN MON-TANA. Min. & Sci. Press, vol. 41, p. 98.
- Costs and Profits of Good Roads. Min. & Sci. Press, vol. 67, p. 423. 1½ columns.
- Cost of Making a Cordurov Road. Eng.-Cont., vol 27, p 59. ½ column.
- METHODS AND COST OF REDUCING
 DUST AND HARDENING ROADS BY
 SURFACE APPLICATIONS By J W.
 Howard. Eng.-Cont., vol. 27, p. 143
 9 columns.
- COST OF CUTTINGS AND EMBANEMENTS FOR MINING ROADS. Engineering, London, vol. 70, p. 41 1½ columns. See also WAGON ROADS, ETC.

- COST OF AUTOMOBILE OPERATION Machinery, vol. 12, June, 1906, p. 518. Table.
- Cost of Portage in Colombia. Min. & Sci. Press, vol 99, p. 183 ½ column. Table
- Cost of Flume Transportation of Ore in Alaska. Min. & Sci. Press, vol 71, p. 26
- See also Cost of Flume Construction and Portage, Packing and Fluming.

Cost of Tunneling

- COST OF TUNNELING R. R. Construction, Webb, p. 195. ½ page. Table.
- Cost of Tunnel Building. Min & Sci. Press, vol. 83, p 256. Tables.
- TUNNEL EXPENSES. Min & Sci. Press, vol. 91, p. 190. Table
- COST OF TUNNEL EXCAVATION AND TIME REQUIRED FOR WORK. Tunneling, Prelini, p. 300. 7½ pages
- Cost of Tunnel Driving. Min. & Sci. Press, vol. 94, p. 272.
- Tunnel Driving at Low Cost. By W H. Bunce. Min. & Sci. Press, vol. 97, p. 60. 17 columns.
- Cost of Tunnel Driving A Record of Economy. Min. & Sci. Press, vol. 97, p. 60. 17 columns.
- Costs of Past and Present Tun-Neling and Milling. Min. & Sci. Press, vol. 74, p. 235. ½ column.
- Cost of Tunneling. Min. & Sci. Press, vol. 74, p. 411. ½ column.
- Cost of Tunnel Excavation per Foot. Tunneling, Prelmi, p. 122.
- ESTIMATED COST OF AMERICAN TUN-NELS. Tunneling, Prelini, p. 122. Tables.
- Cost of Boston Subway per Foot. Tunneling, Prelini, pp. 192, 200.
- Cost of Tunneling Through Sandstone, Limestone and Slate. M. & M., vol. 18, p. 311.

- COST OF CONSTRUCTING A TUNNEL THROUGH CLAY. Eng-Cont, vol. 27, p 51. 7½ columns.
- COST OF COMPRESSED AIR TUNNEL-ING. Engineering, London, vol. 66, p. 634. Table.
- Low-Cost Tunneling with Electric Drills E & M J, vol. 79, p. 758. 4 column.
- Cost of Tunneling with a Temple-Ingersoll Electric-Air Drill. M. & M, vol 27, p. 53.
- COST AND RATE OF WORKING OF THE STANLEY HEADING-MACHINES T. F. I. M. E, vol. 6, pp. 7 and 8.
- Cost of Tunnel Driving in Burma. T. I. M & M, vol. 5, pp. 136, 170, 220.
- Cost of Tunneling in California. Miner's Pocket Book, Lock, p. 218. Table
- COST OF TUNNELING AT THE ME-LONES MINE, IN CALAVERAS COUNTY, CALIFORNIA By W. C. Ralston. E. & M. J., vol. 66, p. 758. 1½ columns.
- Cost of Tunneling in Lehigh Region. Second Geol Sur. Pa, A C, pp. 100, 102.
- COST OF TUNNELING AT THE HOGS-BACK MINE, PLACER COUNTY, CALI-FORNIA. By W C Relston E. & M. J, vol. 48, p 160. 1½ columns.
- COST OF TUNNELING IN CONNECTION WITH HYDRAULIC MINING IN CALIFORNIA. E. & M J, vol. 11, p 120 ½ column.
- COST OF BEDROCK TUNNELING, CALI-FORNIA Min. & Sci. Press, vol. 18, p. 376. \(\frac{1}{2}\) column.
- COST OF CALIFORNIA PLACER TUNNELS. Min. & Sci. Press, vol 34, p 103. \(\frac{1}{3}\) column.
- Cost of Tunneling in Rhyolite: Iron Mountain, Shasta County, California. Min & Sci. Press, vol. 94, p. 56. Table.
- COST OF DRIVING THE LOS ANGELES TUNNEL. Min. & Sci. Press, vol. 100, p. 681. 3 columns. Tables.

- Cost of Los Angeles Aqueduct. M. & M., vol. 31, p. 138 6 columns. Tables
- COST OF TUNNEL DRIVING IN COLO-RADO. Min & Sci. Press, vol. 99, pp. 744, 745, 746 and 747. Tables.
- LENGTHS AND COSTS OF CRIPPLE CREEK TUNNELS. Min. & Sci. Press, vol 83, p 201.
- Cost of Various Tunnels. Min & Sci. Press, vol 83, p. 213.
- COST DATA OF THE GUNNISON TUNNEL. By L. Duncan. E. & M. J., vol. 80, p. 59. 1½ columns.
- COST OF DRIVING TUNNEL FOR HY-DRAULIC MINING IN COLORADO. Min. & Sci Press, vol 93, p 688. Table.
- Cost of Driving the Newhouse Tunnel M & M., vol 27, p. 37. Table.
- DETAILED COST OF DRIVING THE NEW-HOUSE TUNNEL PER FOOT. E. & M. J., vol. 73, p. 553. Table
- COST OF WORK IN THE HOT TIME LATERAL OF THE NEWHOUSE TUN-NEL. E & M. J, vol. 86, p 758. 1 column
- Cost of Driving Iron Mountain Tunnel E. & M. J, vol 85, p. 564. Table.
- Cost of Tunneling, Georgia Gold Fields. E & M. J., vol 61, p 617.
- COST OF TUNNELING, DELAMAR, IDAHO. Min. & Sci. Press, vol. 80, p. 150. Table.
- Cost of Tunneling on the Mother Lode. Min. & Sci. Press, vol. 77, p. 446. Tables.
- THE BI-METALLIC TUNNEL, GRANITE-MOUNTAIN, MONTANA. M. & M., vol. 17, p. 130. ½ column.
- Cost of Tunneling in the Anthracite Fields E. & M. J., vol. 84, p. 503. ½ column
- COST OF THE LOCUST MOUNTAIN TUNNEL, ASHLAND, PENNSYLVANIA. Coll. Engr., vol 11, p. 11. \(\frac{3}{2}\) column.

- Cost of Driving Tunnels in Pennsylvania Coal Mines. Rept Inspr. Mines, Pa., 1878, p 248 Table.
- PROBABLE COST, COMPLETE, OF DRIV-ING A 7½' × 9' TUNNEL IN THE SOUTHERN COAL FIELD. M. & M., vol 20, p. 139.
- See also Examples of Tunnels
- Cost of Driving Slopes in the Anthracite Fields. The Anthracite Coal Industry, Roberts, p 22.
- COST OF SINKING "STAPLES" (INCLINES) IN ENGLISH COAL MINES.
 Coll. Working and Management,
 p. 93. ½ page
- COST OF CONSTRUCTING A LARGE CONCRETE SEWER, St. LOUIS, MISSOURI. Eng-Cont, vol. 27, p. 61. 4 columns I.
- Cost of Entry Driving. M. & M., vol. 25, p. 458. Table.
- Cost of Driving Entry. M. & M., vol 20, p. 428.
- Cost of Driving Entries and Rooms. E. & M. J, vol 75, p. 331.
- Cost of Double Entries per Foot. E. & M. J., vol. 75, p 332.
- APPROXIMATE COST OF ENTRY: Driving by Machine and Hand in Colorado. Coll. Engr., vol. 11, p. 223.
- Cost of Driving Entries and Rooms. E. & M. J., vol. 85, p. 896. 1½ columns
- See also ROOMS AND ENTRIES.
- Cost of Driving Gangways in Pennsylvania Coal Mines with Dimensions Rept. Inspr. Mines, Pa., 1879, pp. 322 and 323. Table.
- COST OF DRIVING GANGWAYS AND AIRWAYS IN THE PENNSYLVANIA ANTHRACITE FIELDS. The Anthracite Coal Industry, Roberts, p. 26. Tables.

- Cost of Driving Mine Openings in English Coal Mines. Coll. Working and Management, pp 172, 244 and 245. Tables.
- COST OF DRIVING A STONE-DRIFT IN ENGLAND. T I. M E, vol. 18, p. 122.
- Cost of Driving Stone Drifts, Eng-LAND P C. M, vol 2, p. 253. Table
- COST OF STONE-DRIFTS IN ENGLISH COAL MINES Coll Working and Management, pp. 90 and 92 Tables
- Cost of Rock Work in Coal Seams E. & M J, vol 74, p. 407. Table.
- Cost of Driving and Cross-cutting at the Combination Mine. Min. & Sci. Press, vol 95, p. 436 Table.
- Cost of Cross-Cuts and Station. M & M., vol. 31, p 729. Table.
- Cost of Driving Cross-Cuts M. & M., vol. 31, pp 695-697. Tables
- Cost of Working in Mines: Especially Drifting. Min. & Sci. Press, vol 33, p. 292. \(\frac{1}{2}\) column.
- METHOD OF CALCULATING COST OF MAKING A SLANTING CUT CONNECT-ING TWO FAULTED PORTIONS OF A COAL SEAM. Coll. Working and Management, pp. 85 and 91. Table
- Cost of Driffing by Air Drills Min. & Sci. Press, vol. 82, p. 179. drift column.
- Cost of Drifting. M. & M., vol. 31, p. 730. Table.
- Cost of Drifting, South Africa. E. & M. J., vol 75, p. 597
- Cost of Drifting on the Rand. Gold Mines of the Rand, p. 259 page.
- MINING COSTS ON THE YUKON: Drifting. E. & M. J., vol. 75, p. 892. Table.
- Cost of Drifting and Shaft-Sinking at Tonopah. E. & M. J., vol. 82, p. 108.
- Cost of Drifting and Stoping in the Lake Superior Copper Mines. E. & M. J., vol. 82, p. 645. 6 columns.

- COST OF DRIFT TUNNELING, RED POINT, CALIFORNIA Min. & Sci Press, vol 68, p 151 Table
- Cost of Drifting in the Cripple Creek District M. & M, vol 30, p. 10. Tables.
- COST OF DRIFTING WITH A WATER LEYNER DRILL, NEWHOUSE TUNNEL, IDAHO SPRINGS, COLORADO M & M, vol. 27, pp. 73 and 74 Table
- Cost of Drifting in Oregon Mines M. & M., vol. 19, p. 15
- Cost of Drifting by Native Labor in Central America. Min & Sci Press, vol 89, p. 338 Table
- Cost of Drifting at Galena, Kansas. Univ. Geol Sur. of Kans., vol. 8, p 341. 13 pages.
- Cost of Drifting, Homestake Mine. Min. & Sci. Press, vol 88, pp 128 and 147 Tables.
- COST OF DRIFTING IN THE SAHUAYA-CAN MINE, MEXICO E. & M. J., vol 80, p. 1214. Table
- Cost of Drifting in the White Bear Mine. J. C M. I., vol 11, p 534. 1 page. Tables.
- COST PER FOOT OF DRIVING DRIFTS, WINZES, SHAFTS, ETC., PARK CITY, UTAH. Min. & Sci. Press, vol 91, p. 334. Table.
- COST OF RUNNING A DRIFT IN SUMA-TRA. P C. M. & M. Soc. S. A., vol. 10, p 317. Table.
- Cost of Driving in the Tin Mines of the Malay Peninsula. T. I M. & M., vol 7, p. 14.
- COST OF DRIVING AND CROSS-CUTTING, NEW SOUTH WALES. T. I M. & M., vol 7, p. 151.
- COST OF DRIFTING IN THE TIN MINES OF THE MALAY PENINSULA TIN Deposits of the World, p. 58.
- COST OF DRIVING DEEP LEVELS IN NOVA SCOTIA. J. M. Soc. N. S. vol. 9, p. 96. Table.
- COST OF RUNNING LEVELS AND CROSS-CUTS, LINCOLN MINE, CALIFORNIA.

- Min. & Sci. Press, vol. 86, p 25. Table.
- Costs of Drives and Levels in Western Australia Mines Gold Min. & Mill, W. Aus, pp. 174 and 214. 2 pages.
- Cost of Driving at Golden Horseshoe, Western Australia. Gold Mm. & Mill., W. Aus., p. 616
 Table
- Cost of Driving Level on the Rand T. N S I. M. & M. E, vol 10, p. 136
- See also Methods of Tunneling, and Examples of Tunnels.
- Cost of Driving a Raise E. & M. J., vol 89, p. 1326. Table.
- Cost of Driving Raises M. & M., vol 31, p. 731 Table.
- Cost of Driving Winzes and Rises Miner's Pocket Book, Lock, pp 221, 222. Table.

Cost of Ventilation

- Cost of Ventilation by Different Systems. Miner's Pocket Book, Lock, pp 338, 340. ½ page
- Cost of Ventilating Equipment. M. & M, vol. 25, p 458. Table
- See also Mechanical Ventilators, Fans, Etc
- COST OF VENTILATION IN THE COM-STOCK MINES, NEVADA. T A. I. M. E., vol 41, p. 42. 1 page.
- Cost of Ventilating Drift Mines. Min. & Sci Press, vol 68, p 165. Table.
- COST OF VENTILATION PER TON OF COAL MINED: Anthracite Fields. Coal Mining Supplement, E. & M. J, vol. 88, p 24. ½ column.
- Cost of Making an Air Crossing. Coll. Working and Management, pp. 86, 146 and 147. ½ page. Tables.
- Cost of Concrete Overcasts. E. & M. J., vol. 84, p. 451. ½ column.
- COST OF CONSTRUCTING AN AIR-TIGHT BRATTICE IN A COAL MINE, ENGLAND. Coll. Working and Management, p. 142 Table.

- See also Stoping, Doors and Regulators in Mines.
- COMPARISON OF COST OF POWER IN EXHAUST AND PLENUM VENTILA-TION OF MINES AND DWELLINGS. By W P. Trowbridge Sch. Mines Quart., vol. 6, p. 82 1½ pages.
- Cost of Air (Ventilation) Tubes. Coll. Working and Management, p. 143. ½ page. Table.
- FIRST COST OF MECHANICAL VS. CHIMNEY DRAFT. E. & M. J., vol. 83, p. 280 1 column.
- Cost of Spraying Operations. E. & M J, vol. 87, p. 195. 2 columns.
- Cost of Equipping Coal Mines for Spraying. M. & M, vol. 29, p. 103. 2 column.
- COST OF WATERING COAL-DUST IN GERMANY. T. F. I. M. E, vol. 9, p. 94.
- See also Methods of Ventilating Mines.

Cost of Washing Coal and Ores

- Cost of Coal-Washing with the Lührig System. T. F I M. E., vol 7, p 399.
- COST OF JIG-WASHING OF COAL. E. & M. J., vol 84, p. 20 Table
- COST OF (COAL) WASHING PER TON: On Basis of Daily Output of 300 Tons Sch Mines Quart., vol. 17, p 399 Table.
- COST OF COAL-WASHING BY MURTON WASHER. T. F. I. M. E., vol. 9, p. 44.
- COST OF WASHING COAL, ALABAMA. T A, I. M. E., vol. 25, p. 127.
- COST OF CLEANING BITUMINOUS COAL. E. & M. J., vol. 77, p. 558.
- COST OF WASHING COAL AT NORTH MOTHERWELL COLLIERY. T. F. I. M. E., vol. 6, p. 395.
- COST OF WASHING ANTHRACITE FINE COAL. The Anthracite Coal Industry, Roberts, p. 225. 2 pages.

COST OF ANTHRACITE COAL WASH-ERIES, PENNSYLVANIA. The Anthracite Coal Industry, Roberts, p. 224. 1 page.

See also Washing Coal and Mineral

Cost of Water

- COST OF WATER FOR KIMBERLEY DIA-MOND MINES. E. & M. J, vol 76, p 237.
- Cost of Water for Milling Purposes and Domestic Uses at the Mercur Mines, Utah (1897). E. & M J., vol. 63, p. 428.
- See also WATER IN MILLING.
- COST OF WATER AND HOMESTEAD FEES AND COMMISSIONS, IN NEVADA. Min. & Sci. Press, vol. 91, p 62. Table
- Cost of Water in Western Australian Mines. Gold Min. & Mill. W. Aus, pp. 131, 143, 144. Tables
- RATE OF CHARGE FOR WATER, VICTORIA MINING DISTRICTS. Min. & Sci. Press, vol. 21, p 14.
- COST OF CONDENSING WATER, WEST-BEN AUSTRALIA. Gold Min & Mill. W. Aus., p. 132.

- COST AND RETURNS PER MINER'S INCH IN GOLD GRAVEL WORKING. Min. & Sci. Press, vol. 85, pp. 324, 325. Table
- Cost and Returns per Mining Ince in Handling Low-Grade Gravel. Min & Sci. Press, vol. 86, p 244. Table.
- COST OF WATER IN THE CALIFORNIA HYDRAULIC MINES. E & M. J., vol. 11, p. 120.
- COST AND PRESSURES OF WATER FOR HYDRAULIC MINING. Min. & Sci. Press, vol. 65, p. 314. & column.
- See also Hydraulic Mining, Etc., and Cost of Hydraulic Mining.
- COST OF WATER SOFTENING BY THE ARCHBUTT-DEELEY PROCESS. Engineering, London, vol. 66, p 232. Table.
- ECONOMY IN THE USE OF WATER Mm. & Sci. Press, vol. 78, p 432. 3 column.
- ECONOMIZING WATER IN CONCENTRA-TION. Min. & Sci Press, vol 77, p. 633. 1 column
- See also Source and Supplies of Water.

DAMS FOR MINING PURPOSES

Stresses in Dams, Their Stability and Other Data

- MASONRY DAM FORMULAS. By O. L. Brodie. Sch. Mines Quart., vol. 29, p. 241. 33 pages. I.
- Some Recent Considerations of Stresses in High Masoney Dams. By C. E. Morrison. Sch. Mines Quart., vol. 31, p. 145. 27 pages. I.
- STABILITY OF DAMS. By J. F. Jackson. Min. & Sci. Press, vol. 100, p. 324. 4½ columns. I.
- SOME OBSERVATIONS ON THE STABILITY OF DAMS. By J. F. Jackson. J. W. Soc. E., vol. 14, p. 625. 16 pages. I.

Description of Dams and Their Construction

SLAG-DAMS. Min & Sci. Press, vol. 95, p. 553. 2 columns. I.

- SLAG DAM. By F. M. Smith. Min. & Sci Press, vol. 95, p. 205. ½ column.
- Notes on the Belubula Dam By O. Schulze. T. Au. I. M. E., vol. 4, p. 160. 12 pages. I.
- A COLORADO MOUNTAIN RESERVOIR. By R. M. Hosea. J. W Soc. E., vol. 12, p. 495. 19½ pages. I.
- THE CHEW RESERVOIR OF THE ASHTON-UNDERLYNE, STALYBRIDGE, AND
 DUKINFIELD DISTRICT WATERWORKS. By A. L. Mellor. T. I.
 M. E., vol. 38, p. 229. 4 pages. I.
- FAILURE OF THE YUBA RIVER DÉBRIS BARRIER. By H. H. Wadsworth. Min. & Sci. Press, vol. 101, p. 630. 7[‡] columns, I.
- TAILINGS DAM OF THE CANANDA CON-SOLIDATED COPPER COMPANY. By

L. D. Ricketts. E. & M. J., vol. 89,
 p. 502. 2½ columns. I

HYDRAULIC FILLING OF DAM. By D. F. Campbell. Min. & Sci. Press, vol. 97, p. 30. 30% columns

See also DISPOSAL OF WASTE.

REINFORCED CONCRETE RESERVOIR. By J B. Henson. E. & M J, vol 90, p 205. 2 columns. I

See also Use of Concrete in Mines Fire-proof Doors. E & M J., vol. 87, p 300. 1½ columns.

See also MINE FIRES

FREEZING METHOD FOR RESTRAINING MINE WATERS. By E. H. Nuttor Min. & Sci. Press, vol. 99, p. 617
† column.

See also Source and Supplies of Water.

See also Cost of Dams, Etc.

Underground Dams

Underground Dams. By A. S. Kenyon. T. Au. I. M. E, vol. 7, p. 113. 8 pages. I.

Dams in the Wabana Mines J C. M. I, vol. 13, p. 634 ½ page.

Brickwork Dams in Thick Coal. By L. Holland T I. M E, vol. 37, p. 54. 5 pages I

A CONCRETE BLOCK MINE DAM. M. & M., vol. 29, p. 47. \(\frac{3}{4}\) column. I. See also Use of Concrete in Mines

GATE FOR CONTROLLING MINE WATER. E & M. J, vol. 89, p. 452 $\frac{2}{3}$ column. I.

See also Inundations in Mines.

WATER-TIGHT BULKHEAD DOOR. E. & M J, vol. 87, p. 262. 1 column. I. CAST-IRON MINE BULKHEAD. E. & M. J., vol. 88, p. 991. 1½ columns. I.

MINING DISTRICTS

Miscellaneous Districts

Principal Mines in America. Min. & Sci. Press, vol. 96, p. 161 Table. 2 columns.

Paralysis of Mining Districts By E. B. Kirby. Min. & Sci. Press, vol. 99, p. 467 7 columns

Assestos: Occurrence and Uses. By H. R. Edgecomb. M. & M, vol. 31, p. 469. 6½ columns. I.

BISMUTH: Its Occurrence and Use. By E. B. Wilson. M. & M, vol. 30, p 105. 5½ columns.

AMERICAN BORAX DEPOSITS. By C. R. Keyes. E. & M. J., vol. 88, p. 826. 5 columns I.

See also United States

OUR STEAM-COAL AND ITS USES. By L. Knowles. T. I. M. E, vol. 36, p. 273. 13 pages.

CUMBERLAND COAL. Min. Mag., vol. 1, p. 35. 9 pages.

SEMI-BITUMINOUS COAL-FIELDS OF GREAT BRITAIN AND AMERICA COM-PARED. By Professor Whitaker Min. Mag, vol. 10, p. 189. 2 pages. AMERICAN VS. EUROPEAN COAL MINES. By H. M. Payne. M. & M., vol. 31, p. 195. 2½ columns.

BRIEF NOTES ON EUROPEAN COAL MINES. By F. W. Parsons. E. & M. J., vol. 88, p. 497, 7½ columns, I; p. 589, 12 columns, I.; p. 809, 11 columns, I.

KAOLINS AND FIRE CLAYS OF EUROPE. By H. Rice. U. S. G. S., 19th Ann. Rept, pt. 6, 91 pages, 1897–98.

COPPER PROSPECTS. By T. L. Carter. P. C. M. & M. Soc. S. A, vol. 5, p. 305, 9 columns, I; vol. 6, p. 80, ½ column; p. 111, 1½ columns

DIAMOND-CARBON IN METEORITES.

Min. & Sci. Press, vol 95, p. 310.

drawn.

Carbons: The Black Diamond. By J. Baszanger. Min. & Sci. Press, vol. 95, p. 788. \(\frac{1}{2}\) column

RARE EARTHS: Their Occurrence and Use. By C. Bogenrieder. T. Au. I M. E, vol. 13, p. 87. 28 pages.

THE RARE METALS: Beryllium. By C. Baskerville E. & M. J., vol. 86, p. 907. 2½ columns.

- BORON: Its Occurrence and Uses By E. B. Wilson. M & M, vol. 30, p 168. $4\frac{1}{4}$ columns.
- THE RARE METALS: Columbium. By C. Baskerville E. & M. J., vol 86, p. 960. 2½ columns.
- LITHIUM AND ITS SOURCES. By F. L. Hess Min & Sci. Press, vol. 100, p. 822. 5 columns
- THE RARE METALS: Molybdenum. By C Baskerville. E. & M. J., vol 86, p. 1055. 2½ columns
- THE RARE METALS: Tantalum. By C. Baskerville. E & M. J, vol 86, p. 1100. 2½ columns.
- THE RARE METALS TITANIUM. By C. Baskerville E. & M J, vol. 87, p. 10. 4 columns
- THE RARE METALS: Thorium. By C. Baskerville. E. & M. J, vol. 86, p. 1241. 4 columns
- RARE METALS: Uranium By C. Baskerville. E. & M. J, vol. 87, p. 257. 4 columns.
- RARE METALS: Vanadium. By C. Baskerville. E. & M. J., vol. 87, p. 518. 3 columns.
- THE PRESENT SOURCE AND USES OF VANADIUM By J. K. Smith. T. A. I. M. E., vol. 38, p. 698 6 pages.
- FLUORSPAR GRADES AND MARKETS. By F. J. Fohs. Min. & Sci. Press, vol. 99, p 720. 3½ columns.
- FLUORSPAR By F J. Fohs Min. & Sci. Press, vol. 98, p. 888. 5 columns.
- PROPERTIES AND TESTS OF FULLER'S EARTH. By J. T. Porter. U. S. G. S., Bull. 315, p. 268. 22½ pages, 1906.
- FULLER'S EARTH. P. C. M. & M. Soc. S. A., vol. 9, p. 276. 12 columns.
- FULLER'S EARTH. M. & M, vol. 29, p. 54. 12 columns. I.
- FULLER'S EARTH. E. & M. J., vol. 87, p. 1000. 2 columns.

- Notes on Various Glass Sands, Mainly Undeveloped. By E. F Burchard U S G S, Bull 315, p 377 6 pages 1906.
- THE REQUIREMENTS OF SAND AND LIMESTONE FOR GLASS MAKING By E. F. Burchard. U. S. G. S., Bull. 285, p. 452. 7 pages. 1905.
- NATURAL GAS By J D. Weeks U. S G S., Mineral Resources, 1886, vol. 8.
- NATURAL GAS P E. Soc. W Pa, vol 2, p. 331, 27½ pages, p 401, 10 pages
- THE GREATEST GEM MINE IN THE WORLD P C M. & M. Soc. S A, vol. 7, p. 99. ½ column.
- LODES AND QUARTZ VEINS OF GOLD By A. Waddington. Min Mag, vol 2, p. 21. 3 pages.
- THE GREAT GOLD MINES By T A. Rickard. Min & Sci. Press, vol 96, p. 10, 7½ columns, I, p. 161, 5½ columns, I.
- Granites By G. Surt. Min & Sci Press, vol 99, p 712 5 columns. I
- GRAPHITE: Its Occurrence and Use M. & M, vol 30, p. 394. 32 columns. I.
- GYPSUM MINING. By W J. Jones M. & M., vol. 29, p 490 1½ columns. I.
- THE SUPPLY OF IRON. By J. F. Kemp. Mm. Mag, London, vol 3, p 363 7 columns.
- THE SUPPLIES AND RESERVES OF IRON ORES. By J. Birkinbine. J. C. M. I., vol. 10, p. 134. 14½ pages.
- Magnetic Iron Ore: Magnetite, Magnetic Oxide of Iron, and Lodestone. Min. Mag, vol. 4, p. 121. 14 pages.
- THE BLACK BAND, OR MUSHET IRON-STONE. Min Mag, vol. 4, p 19 9½ pages.
- ON THE OCCURRENCE OF ORES OF IRON IN THE AZOIC SYSTEM. By J D. Whitney. Min. Mag., vol. 7, p. 67. 4 pages.

- Franklinite Iron Ores: Their Uses and Quantity. Min Mag., vol. 10, p. 105. 4 pages.
- AGGLOMERATION OF MANGANIFEROUS LIMONITE ORE. By F. Witte. E. & M. J., vol 90, p. 216. 4½ columns I.
- LITHOGRAPHIC STONE. By S J. Kubel U. S. G. S., Mineral Resources, 1900. 4 pages.
- LEAD INDUSTRY. By C. Kirchoff, Jr. U S. G. S., Mineral Resources, 1883 and 1884, vol. 14.
- MANGANESE-ORE IN UNUSUAL FORM By W P Blake. T. A I. M. E., vol. 41, p. 647. 2½ pages.
- USES OF MANGANESE. By E. C. Harder. U. S G S., Bull. 427, p. 243. 24 pages.
- See also United States.
- MICA. Its Characteristics and Commerce. E. & M. J., vol. 87, p. 941. 3 columns.
- Petroleum. Occurrence and Use. By Max Livingston. P. E. Soc. W. Pa., vol. 2, p. 193. 14 columns.
- THE OIL-SHALES OF THE MARITIME PROVINCES By R. W. Ells. J. M. Soc. N. S, vol. 14, p 1. 12½ pages.
- ECONOMIC POSSIBILITIES OF AMERICAN OIL SHALES. By C. Baskerville E. & M J, vol 88, p 149, 15\frac{3}{4} columns, I.; p. 195, 13\frac{3}{4} columns, I.
- OCCURRENCE OF OIL AND GAS. By W. Forstner. Min & Sci. Press, vol. 101, p. 634. 8½ columns. I.
- CLASSIFICATION OF PETROLEUM AND NATURAL GAS FIELDS BASED ON STRUCTURE. By F G. Clapp. Min. & Sci. Press., vol. 101, p. 80. ½ column.
- S. Pearson and Son's Uncontrol-Lable Oil Gusher. E. & M J., vol. 87, p. 7. 9 columns. I.
- THE USE OF GEOLOGICAL SCIENCE IN THE PETROLEUM AND NATURAL GAS BUSINESS. By F. G. Clapp. P E. Soc. W. Pa., vol. 26, p. 87. 34 pages. I.

- PLATINUM By F W. Horton U S. G S., Mineral Resources, 1905. 12 pages
- THE GEOLOGICAL RELATIONS AND DISTRIBUTION OF PLATINUM AND ASSOCIATED METALS By J. F Kemp. U. S. G. S., Bull 193, 95 pages I. 1902.
- Phosphate Claims on Public Lands. Min. & Sci. Press, vol. 98, p 862. 42 columns.
- See also United States.
- PHOSPHATE DEPOSITS OF OCEAN AND PLEASANT ISLANDS. By F. D. Powers. T Au. I. M E., vol. 10, p. 213. 20 pages. I.
- Investigation on the Rock Guano from the Islands of the Carribbean Sea. By W. J. Taylor. Min. Mag., vol. 8, p. 438. 11 pages.
- QUICKSILVER PRODUCTION IN FOREIGN COUNTRIES. By H. W. Turner. Min. & Sci. Press, vol. 100, p 16. 1½ columns.
- RARE MERCURY ORES. By C. G. Dennis. Min. & Sci. Press, vol. 95, p. 92. 1 column. I.
- THE RUBY By M. R. Ward. M. & M., vol. 31, p. 319. 3½ columns. I.
- BLACK SANDS. By A. R. Townsend. E. & M. J., vol. 85, p. 307. 4½ columns.
- METALLIC SULPHIDES IN ALLUVIAL GOLD DEPOSITS. By F. L. Garrison. Min & Sci. Press, vol. 101, p. 812. 2 columns.
- Silver: History and Mode of Occurrence. By T. F. Van Wagenen. Min. & Sci. Press, vol. 97, p. 392. 7½ columns.
- A NEW SOURCE OF SUPPLY OF SUPPLIE. T. A. I. M. E., vol. 39, p. 522. 18 pages. I.
- BIBLIOGRAPHY OF TIN-DEPOSITS IN NORTH AMERICA. T. A. I. M. E., vol. 38, p. 682. 1 page.
- See also United States.

- NIGERIAN TIN MINING E. & M. J., vol. 90, p. 1299. \(\frac{1}{2}\) column.
- TUNGSTEN: Its Occurrence and Use. M & M., vol. 30, p. 387. $\frac{2}{3}$ column.
- RARE METALS: Tungsten. By C. Baskerville E & M. J., vol. 87, p. 203. 2½ columns

Africa

- SOUTH AFRICAN COALS AND THEIR ECONOMICS By A. J. Andrews. P. C. M. & M Soc S. A, vol. 9, p 330, 9½ columns; p. 391, 6 columns. D.
- SOUTH AFRICAN COALS AND THEIR ECONOMICS. By A. J Andrews. P. C. M. & M. Soe S. A., vol. 10, p. 92. 5 columns.
- KATANGA COPPER BELT, BELGIAN CONGO. By F. E Studt. Min. & Sci. Press, vol. 99, p. 857. 1½ columns.
- THE COPPER DEPOSITS OF KATANGA, CONGO. E. & M J, vol 86, p. 1049. 2 columns.
- THE COPPER MINES OF KATANGA, CONGO FREE STATE E. & M. J., vol. 85, p. 202. 32 columns.
- COPPER IN THE BELGIAN CONGO. T. A. I. M. E., vol. 41, p. 196. 8 pages. I.
- THE DIAMOND INDUSTRY IN SOUTH AFRICA. E. & M. J., vol 85, p. 1106. † columns.
- SOUTH AFRICAN DIAMOND MINE. E. & M. J, vol. 87, p. 1240. 11 columns.
- PREMIER DIAMOND MINE, NEAR PRE-TORIA, TRANSVAAL. By E. M Weston. E. & M. J., vol. 89, p 369. 10½ columns. I.
- VISIT TO PREMIER DIAMOND MINE. P. C. M. & M Soc S. A., vol. 9, p. 209. 5½ columns. I.
- DIAMOND MINING AT DE BEERS. P. C M & M. Soc. S A, vol. 7, p. 227. 4½ columns.

- THE ERUPTIVE DIAMOND-BEARING BRECCIAS OF THE BOSHOF DISTRICT, SOUTH AFRICA. By J P Johnson T. I M. & M, vol 17, p. 277 8 pages.
- DIAMOND MINES AND ALLUVIAL DE-POSITS, SOUTH AFRICA The Method Employed in Winning Diamonds on the Vaal River Alluvial Fields. By P. R. Day T Au I. M. E, vol 6, p. 87. 6 pages I.
- ALLUVIAL DIAMOND MINING, SOUTH AFRICA. By P. B. Holte. M. & M, vol 29, p 37. 2 columns. I.
- Some Notes on Banket Deposits, with Special Reference to Those Met with at the Denny-Dalton Gold Fields, Vryheid District, South African Republic, and the Process of Treatment Employed There. By G A. Denny T Au I. M. E, vol 3, p. 75. 16 pages I
- THE CROWN MINES, LTD M & M, vol 31, p 691. 2½ columns
- CONSOLIDATED GOLD FIELDS OF SOUTH AFRICA, LTD By E M Weston. E. & M J, vol 85, p. 355. 3\frac{1}{3} \text{ columns.} I.
- THE ROBINSON MINE, SOUTH AFRICA. By J. B. Pritchford. Min. & Sci. Press, vol 97, p. 606. 5 columns
- PRESENT MINING CONDITIONS ON THE RAND: Discussion of the paper of Thomas H. Leggett, p. 211. T. A. I. M. E., vol. 39, p. 856. 2½ pages.
- Notes on Rand Mining. By T. Johnson. P. C. M. & M. Soc. S. A., vol. 8, p. 255, 23 columns, I.; p. 305, 1 column; p. 346, 12½ columns; p. 381, 3 columns; vol. 9, p. 13, 15 columns, I.; p. 48, 1 column, p. 82, 24 columns, I.
- THE GREAT MINES OF THE RAND. By T. A. Rickard. Min. Mag., London, vol. 2, p. 213. 7½ columns. I.
- PRESENT MINING CONDITIONS ON THE RAND. By T. H. Leggett. T. A. I. M. E, vol 39, p. 211. 12½ pages.

- REMINISCENCES OF THE EARLY RAND. By M. H. Coombe. P. C. M & M Soc. S A., vol 9, p. 38, 7½ columns; p 123, 5 columns; p. 204, 4 columns; p 227, 10 columns, I.; p. 272, 5 columns
- PRESENT MINING CONDITIONS ON THE RAND. By T H. Leggett. E & M J., vol. 85, p. 1239. 10 columns
- FURTHER NOTES ON RAND MINING. By T. Johnson. P. C. M. & M. Soc. S. A., vol 10, p 276, 11½ columns, I.; p. 319, 1½ columns; p. 449, 6 columns; p. 394, 8½ columns, I.
- REMINISCENCES OF THE EARLY RAND. By J S MacArthur. E. & M J, vol 88, p 357 4½ columns.
- MINING CONDITIONS ON THE RAND. By T. H Leggett. Min & Sci. Press, vol. 96, p 812. 9½ columns. I
- THE PRINCIPAL MINES OF THE TRANS-VAAL Min. & Sci. Press, vol. 96, p. 10 2 columns. Table.
- VISITING THE GOLD COAST, WEST AFRICA. By F. F. Sharpless. Min. & Sci. Press, vol. 101, p. 800. 7 columns Map.
- A West African Gold Mine. E & M J, vol. 87, p 1005 1½ columns.
- THE WEST AFRICAN GOLDFIELD. E & M J., vol. 87, p. 905. 1 column.
- West Africa, the Gold Coast Colony, and Ashanti in 1908. By W F Wilkinson. E. & M J., vol. 87, p. 196. 3½ columns.
- EARLY DAYS ON THE GOLD COAST. By E. T. McCarthy. Min. Mag, London, vol 1, p 291. 62 columns.
- WEST AFRICAN MINES. By J. H. Curle Min. Mag., London, vol. 1, p. 42. 6 columns. I.
- Gold Mining in West Africa. E. & M. J., vol. 85, p. 1282. 1 column.
- THE BARBERTON GOLDFIELD IN SWAZI-LAND E. & M. J., vol. 89, p. 669. 2½ columns.
- THE BARBERTON GOLDFIELD, SOUTH AFRICA By A. Richardson. P. C.

- M. & M. Soc S. A., vol. 10, p. 122 25 columns.
- THE PILGRIM'S REST GOLD FIELDS AND MINING METHODS By J. Moyle-Phillips. P. C. M & M Soc S A, vol. 9, p 293, 16 columns, I; p. 349, 3½ columns; p. 395, 2 columns, I.
- NOTES ON THE GOLD OF THE ROODE-POORT DISTRICT. By G. Andrioli J. C. M. & M. Soc S A., vol. 5, p. 73, 4 columns; p. 152, 1 column.
- MINING IN SOUTHERN RHODESIA. By A. H. Ackermann. Min. Mag., London, vol. 2, p. 138. 6 columns. I.
- SMALL MINES OF RHODESIA. By B. I. Collings. P. C. M. & M. Soc S. A., vol 9, p 76, 10 column; p. 126, 5½ columns; p. 166, 2½ columns; p. 206, 2 columns; p 275, 1½ columns.
- STAR OF THE CONGO MINE. Mm. & Sci. Press, vol. 100, p 260. 2 columns. I.
- MINING-CONDITIONS IN THE BELGIAN CONGO (CONGO FREE STATE). By S. H Ball and M. K. Shaler T. A I. M. E., vol 41, p 189. 9 pages. I.
- THE NEW GOCH GOLD MINES, LTD. P C M. & M Soc S A, vol 5, p. 57. 10 columns
- IBON IN THE BELGIAN CONGO. T. A. I M. E, vol 41, p. 210. 4 pages.
- Oils of West Africa. E. & M. J., vol. 87, p. 1037. 3 columns.
- BITUMEN AND OILS IN WEST AFRICA. By T. H. Boorman. E. & M. J., vol. 87, p. 1037. 3 columns.
- THE SOUTH AFRICAN TIN-DEPOSITS. By W. R. Humbold. T. A. I. M. E., vol 39, p. 783. 7 pages. I.
- TIN DEPOSITS OF THE TRANSVAAL. E. & M. J., vol. 88, p. 778. 2½ columns.
- Notes on Tin Mining in Cape Colony. By H. D. Griffiths. P. C. M. & M. Soc. S. A., vol. 8, p. 167, 28 columns. I.

- TIN MINING AND ORE DRESSING IN SOUTH AFRICA. By E. M. Weston. E. & M. J, vol. 89, p. 411, 7½ columns, I; p. 470, 7 columns, I.; p. 573, 7 columns, I.
- Tin in the Belgian Congo T. A. I. M. E., vol 41, p. 209. 2 pages. I.
- THE GROENFONTEIN TIN MINES. By E. M Weston E. & M. J, vol 90, p 515. § column. I.
- PHOSPHATES IN TUNIS. E. & M. J, vol. 88, p 177. 11 columns.
- THE MINING INDUSTRY IN ALGERIA AND TUNIS By M Clere. E. & M. J., vol 88, p. 460 9½ columns I.
- See also Miscellaneous Production.

Alabama

- ECONOMIC FEATURES OF THE BIRMING-HAM DISTRICT. By J L Pultz. E. & M. J., vol. 88, p. 299 15 columns. I.
- OPERATING COMPANIES OF BIRMING-HAM DISTRICT. By J. L. Pultz. E. & M. J, vol 88, p. 345. 11½ columns. I.
- THE CLAYS AND OCHERS OF ALABAMA. By E. A Smith. E. & M. J, vol. 85, p. 1088. $\frac{7}{8}$ column
- See also Occurrence of Iron Ores.
- CLAYS OF THE BIRMINGHAM DISTRICT, ALABAMA. By C. Butts. U. S. G. S., Bull. 315, p 291. 4 pages 1906.
- Fuels of the Birmingham District, Alabama. By E. F Burchard and C. Butts. U. S G. S, Bull. 400, 204 pages. I. 1910.
- THE WARRIOR COAL BASIN IN THE BIRMINGHAM QUADRANGLE, ALA-BAMA. By C Butts. U S. G. S., Bull. 285, p. 211. 12 pages. I. 1905.
- LAHAUSAGE MINE, ALABAMA. By A. W. Evans. M. & M, vol 30. p. 77. 41 columns I.
- THE COOSA COAL FIELD OF ALABAMA.

 By W. F. Prouty. E. & M. J., vol.

 88, p 921. 4 columns. I. Sections and Maps

- THE NORTHERN PART OF THE COHABA COAL FIELD, ALABAMA. By C. Butts U. S. G. S., Bull. 316, p. 76. 40 pages. I 1906.
- NOTES ON SOME GOLD DEPOSITS OF ALABAMA. By H. D. McCaskey. U S. G S, Bull 340, p. 36. 17 pages. 1907.
- IRON ORES, FUELS AND FLUXES OF THE BIRMINGHAM DISTRICT, ALABAMA. By E. F. Burchard and C. Butts. U. S. G. S., Bull 400. 204 pages. I. 1910.
- IRON OPERATIONS OF THE BIRMING-HAM DISTRICE By E Higgins. E. & M. J, vol 86, p. 1043. 18½ columns. I.
- Iron Operations in Northeastern Alabama. By E Higgins. E & M. J., vol 86, p. 1083. 12 columns. I.
- THE IRON ORE INDUSTRY IN ALABAMA.

 By E. A Smith E & M J., vol.

 85, p 1159. 4 columns.
- AN ESTIMATE ON THE TONNAGE OF AVAILABLE CLINTON IRON ORE IN THE BIRMINGHAM DISTRICT, ALA-BAMA. By E. F. Burchard. U S. G. S., Bull. 340, p. 308 10 pages. I. 1907.
- THE CLINTON OR RED ORES OF THE BIRMINGHAM DISTRICT, ALABAMA. By E. F Buchard. U. S. G. S., Bull. 315, pe 130. 21½ pages. 1906
- THE CLINTON IRON-ORE DEPOSITS OF ALABAMA. By E F Burchard T. A. I. M. E, vol 40, p 75. 59 pages I.
- THE BROWN IRON ORES OF THE RUSSELLVILLE DISTRICT, ALABAMA. By E F. Burchard. U. S. G. S., Bull. 315, p 152 7 pages 1906.
- THE GRAY IRON ORES OF TALLADEGA COUNTY, ALABAMA By P. S. Smith. U. S. G. S, Bull. 315, p. 161 23½ pages. 1906.
- Limestone and Dolomite in the Birmingham District, Alabama. By C Butts U S. G. S., Bull 315, p. 247. 9 pages. 1906.

- SAND-LIME BRICKMAKING NEAR BIR-MINGHAM, ALABAMA. By C. Butts. U. S G S., Bull. 315, p 256 2 pages. 1906.
- KELLERMAN MINE, KELLERMAN, ALA-BAMA By N Hutchins. M. & M., vol 31, p 204. 4½ columns. I.

Alaska

- GEOGRAPHICAL DICTIONARY OF ALASKA. By M. Baker. U. S. G. S., Bull. 187. 446 pages 1901.
- GEOGRAPHIC DICTIONARY OF ALASKA. By M Baker. U S. G. S., Bull 299. 690 pages. 1906.
- THE GEOGRAPHY AND GEOLOGY OF ALASKA By A. H. Brooks U. S. G. S., Professional Paper 45. 327 pages. I. 1906.
- ALASKAN GEOGRAPHIC NAMES. By M. Baker. U. S. G. S, 21st Ann Rept., pt. 2, pp. 487-509, 1899-1900.
- RECENT DEVELOPMENTS IN MINING IN THE SOUTHERN YUKON. By D D. Cairnes. J. C. M. I., vol. 10, p 207. 9 pages
- ECONOMIC DEVELOPMENTS IN SOUTH-EASTERN ALASKA. By F. E and C W. Wright. U. S. G. S., Bull 259, p 47. 21½ pages.
- MINING IN SOUTHBASTERN ALASKA. By C. W. Wright. U. S. G. S., Bull. 379, p. 67. 20 pages. I. 1908.
- MINING IN SOUTHEASTERN ALASKA. By A. Knopf US. G. S., Bull. 442, p. 133. 11 pages. 1909.
- THE MINING INDUSTRY OF 1908. By A. H. Brooks. U. S. G. S., Bull. 379, p. 21. 44 pages. I. 1908.
- THE MINING INDUSTRY OF ALASKA IN 1909 By A. H. Brooks. U. S. G. S., Bull 442, p. 20. 27 pages. 1909.
- OUTLINE OF THE GEOLOGY AND MIN-BRAL RESOURCES OF THE ILIAMNA AND CLARK LAKES REGION. By G. C. Martin and F. J. Katz. U. S. G. S., Bull 442, p. 179. 22 pages. I. 1909.

- GEOLOGY AND MINERAL RESOURCES OF THE BERNERS BAY REGION, ALASKA. By A. Knopf. U S. G. S, Bull. 446, 58 pages I.
- MINERAL RESOURCES OF KATSINA-CHITINA REGION, ALASKA By F. H. Moffit and A. G. Maddren U. S. G. S., Bull. 374, 103 pages. I. 1909.
- MINERAL RESOURCES OF ALASKA IN 1907. By A. H. Brooks. U. S. G. S, Bull. 345. 294 pages. I. 1908.
- MINERAL RESOURCES OF THE NULATO-COUNCIL REGION, ALASKA. By P. S Smith and H. M. Eakin. U. S. G S, Bull. 442, p. 316. 37 pages. I 1909.
- PRELIMINARY REPORT ON THE MINERAL RESOURCES OF THE SOUTHERN PART OF KENAI PENINSULA, ALASKA. By G. S. Grant and D. F. Higgins. U. S G. S, Bull. 442, p. 166. 11 pages. I. 1909.
- MINERAL RESOURCES OF SOUTH-WESTERN ALASKA. By W. W Atwood. U. S. G. S., Bull. 379, p. 108. 44 pages. I. 1908.
- Map of Central Alaska Showing Distribution of Mineral Resources U. S. G. S, Bull. 379, p. 24. I 1908.
- THE MINERAL RESOURCES OF THE KOTSINA AND CHITINA VALLEYS, COPPER RIVER REGION, ALASKA. By F. H. Moffit and A. G. Maddren. U. S. G. S., Bull. 345, p. 127. 50 pages. I. 1907.
- THE DISTRIBUTION OF MINERAL RE-SOURCES IN ALASKA By A. H. Brooks. U. S G. S., Bull. 345, p. 18. 12 pages. 1907.
- THE COPPER RIVER DISTRICT, ALASKA. By H. A Keller. E & M. J., vol. 85, p 1273. 10½ columns. I.
- Some Notes on the Copper River District, Alaska. By W. M. Brewer. J. C. M. I, vol. 11, p. 415. 8 pages. I.
- THE GEOLOGY AND MINERAL RE-SOURCES OF A PORTION OF THE COP-PER RIVER DISTRICT, ALASKA. By

- F. C. Schrader and A. C. Spencer.U. S. G. S., Special Publications, 1901. 94 pages. I.
- The Copper River District, Alaska. By W. M. Brewer. Mm. & Sci. Press, vol 96, p. 71, 4 columns, I.; p. 101, 2½ columns.
- Ketchikan and Wrangell Mining Districts, Alaska By F E and C. W. Wright. U. S G. S, Bull 347. 210 pages. I. 1908
- MINERAL RESOURCES OF THE MOUNT WRANGELL DISTRICT, ALASKA By W. C. Mendenhall and F. C Schrader. U. S G S., Professional Paper 15 71 pages. I. 1903.
- MINING IN THE WRANGELL DISTRICT, ALASKA Min & Sci Press, vol. 96, p. 199. 5½ columns. I.
- A RECONNAISSANCE OF THE CAPE
 NOME AND ADJACENT GOLD FIELDS
 OF SEWARD PENINSULA, ALASKA, IN
 1900. By A. H Brooks, G. B
 Richardson, and A. J Collier. U. S
 G. S, Special Publications, 1900.
 222 pages. I.
- RECONNAISSANCE OF THE GEOLOGY AND MINERAL RESOURCES OF PRINCE WILLIAM SOUND, ALASKA. By U S. Grant and D. F. Higgins. U S G. S., Bull. 443. 89 pages. I. 1910.
- GEOLOGY AND MINERAL RESOURCES OF THE SOLOMON AND CASADE-PAGO QUADRANGLES, SEWARD PEN-INSULA, ALASKA. By P. S. Smith. U. S. G. S., Bull. 433. 234 pages I.
- Mining in Seward Peninsula By F. F. Henshaw. U. S. G. S., Bull. 442, p. 353. 18 pages. 1909.
- RECENT DEVELOPMENTS IN SOUTHERN SEWARD PENINSULA. By P. S. Smith. U. S. G. S., Bull. 379, p. 267. 35 pages. I. 1908.
- Notes on the Geology and Mineral Prospects in the Vicinity of Seward, Kenai Peninsula. By U. S. Grant and D F. Higgins, Jr. U. S. G. S, Bull. 379, p. 98. 10 pages. I. 1908.

- Investigations of the Mineral Deposits of Seward Peninsula, Alaska. By P S. Smith. U. S. G. S., Bull. 345, p 206. 44 pages I. 1907.
- THE MINERAL DEPOSITS OF THE LOST RIVER AND BROOKS MOUNTAIN RE-GION, SEWARD PENINSULA, ALASKA. By A Knopf. U S G. S, Bull 345, p. 268. 4 pages. 1907.
- Geology and Mineral Resources of Iron Creek, Alaska. By P S Smith U. S G. S., Bull. 314, p. 157. 7 pages I. 1906
- A RECONNAISSANCE IN THE NORTON
 BAY REGION, ALASKA, IN 1900 By
 W C. A. Mendenhall. U. S G S.,
 Special Publications, 1900. 222
 pages. I.
- MINERAL RESOURCES OF THE NA-BESNA-WHITE RIVER DISTRICT, ALASKA. By F H Moffit U S. G S, Bull. 417 64 pages. I 1910.
- THE FORTYMILE QUADRANGLE, YUKON-TANANA REGION, ALASKA By L. M Prindle U. S. G. S., Bull 375 52 pages I. 1909.
- THE FAIRBANKS AND RAWPORT QUAD-RANGLE, YUKON-TANANA REGION, ALASKA. By L. M Prindle U S. G. S., Bull 337 102 pages. I 1908.
- GEOLOGY AND MINERAL RESOURCES OF THE CONTROLLER BAY REGION, ALASKA By G. C Martin U. S. G S, Bull. 335 141 pages I. 1908.
- THE CIRCLE PRECINCT, ALASKA. By A. H. Brooks U. S G S., Bull. 314, p. 187. 18 pages 1906.
- THE YUKON-TANANA REGION, ALASKA.

 Description of Circle Quadrangle By
 L. M. Prindle. U. S. G. S., Bull.

 295. 27 pages. I 1906.
- MINERAL RESOURCES OF THE KENAI PENINSULA, ALASKA. By F H. H. Moffit. U. S. G S, Bull 277. 88 pages I. 1906
- MINING IN THE CHITINA DISTRICT, ALASKA. By F. H. Moffit. U. S. G. S., Bull. 442, p. 158. 6 pages. 1909.

- MINERAL RESOURCES OF THE NABESNA-WHITE RIVER DISTRICT, ALASKA. By F. H. Moffit and A. Knopf. U. S. G. S., Bull. 379, p 161. 20 pages. I. 1908.
- MINING IN THE KOTSINA-CHITINA, CHISTOCHINA, AND VALDEZ CREEK REGIONS. By F. H. Moffit. U S. G. S., Bull. 379, p. 153 8 pages I 1908
- THE KONGARCK REGION, ALASKA By A H Brooks U S G. S., Bull 314, p 164 16 pages. I. 1906.
- THE BONNIFIELD AND KANTISHNA REGIONS, ALASKA. By L M. Prindle. U. S. G. S., Bull. 314, p. 205 22 pages. I 1906.
- RECONNAISSANCE ON THE PACIFIC COAST FROM YOKUTAT TO ALSEK RIVER. By G. Blackwelder. U. S. G S., Bull 314, p. 82 7 pages. 1906.
- YUKON TERRITORY WEST OF LEWIS RIVER. By D. D. Cairnes. Min & Sci. Press, vol. 99, p. 29 2 columns.
- THE WHEATON RIVER ANTIMONY DE-POSITS, YUKON TERRITORY By D D. Cairnes J C M. I., vol. 13, p 297. 11½ pages. I.
- Nonmetalliferous Mineral Resources of Southeastern Alaska By C. W. Wright. U. S. G. S., Bull 314, p. 73. 8 pages 1906
- THE ALASKA COAL FIELDS By G C. Martin. U. S. G. S., Bull. 314, p. 40 7 pages. I. 1906.
- Alaska Coal and Its Utilization. By A. H. Brooks. U. S. G. S., Bull. 442, p. 47. 54 pages. I. 1909.
- COAL RESOURCES OF SOUTHWESTERN ALASKA By R. W. Stone. U. S. G. S., Bull. 259, p. 151 21 pages. I.
- BERING RIVER COAL FIELD. By G. C. Martin. U. S. G. S., Bull. 259, p. 140. 10½ pages. I.
- THE BERING RIVER COALFIELD OF ALASKA. By L. W. Storm. E. & M. J., vol. 90, p. 272. 9½ columns. I.

- The Bering River Coal Deposits, Alaska. By G. C. Martin. U. S. G S, Bull. 250 64 pages. I. 1905.
- CONTROLLER BAY COAL FIELD, ALASKA.

 By G. W. Evans. M. & M., vol 30,
 p. 449, 8 columns, I.; p. 552, 62 columns. I.
- COAL FIELDS OF THE CAPE LISBURNE REGION, ALASKA. By A. J Collier. U. S G. S., Bull. 259, p. 172. 3½ pages.
- COAL RESOURCES OF THE CAPE LISBURNE REGION, ALASKA. By A J. Collier. U. S. G. S, Bull. 278. 54 pages. I. 1906.
- GEOLOGY AND COAL RESOURCES OF THE CAPE LISBURNE REGION, ALASKA. By A. J. Collier. U S G. S., Bull. 278. 54 pages. I. 1906.
- COAL DEPOSITS OF THE SKEENA RIVER. J C. M. I, vol. 10, p 223 6 pages. Map
- THE COAL FIELDS OF THE KACHEMAK BAY REGION. By R. W. Stone U. S. G. S., Bull. 277. 88 pages. I. 1906
- A RECONNAISSANCE OF THE MATA-NUSKA COAL FIELD, ALASKA, IN 1905. By G. C Martin. U. S G S., Bull. 289. 36 pages. I 1906.
- COPPER DEPOSITS OF PRINCE WILLIAM SOUND, ALASKA. By U. S. Grant Min. & Sci Press, vol. 100, p. 63. 4 columns. I.
- COPPER MINING AND PROSPECTING OF PRINCE WILLIAM SOUND. By U. S. Grant and D. F. Higgins, Jr. U. S. G. S., Bull. 379, p. 87. 10 pages. I. 1908.
- Notes on Copper Prospects of Prince William Sound. By F. H. Moffit. U. S. G. S., Bull. 345, p. 176. 3 pages. I. 1907.
- OPENING OF THE CHITINA COPPER BELT IN ALASKA. By D. Donohoe. E. & M. J., vol. 90, p. 1306. 6 columns. I.
- CHETINA COPPER REGION IN SOUTHERN ALASKA. By L. W. Storm. E. & M. J., vol. 90, p. 1011. 7½ columns. Map.

- CHITINA VALLEY COPPER DEPOSITS, ALASKA By E Jacobs M. & M, vol 31, p. 315. 61 columns I.
- OCCURRENCE OF COPPER IN CHITINA VALLEY, ALASKA. M. & M, vol. 31, p. 315 6½ columns I.
- BONANZA COPPER MINE, ALASKA. By U. H Wilhelm Min & Sci. Press, vol. 101, p 569 2½ columns. I.
- BONANZA COPPER MINE, ALASKA. By U. H. Wilhelm M. & M., vol. 31, p 441. 1²/₄ columns Map
- COPPER DEPOSITS OF WHITE HORSE. By T. A Rickard. Min. & Sci. Press, vol 97, p. 778 31 columns. I.
- THE WHITEHORSE COPPER BELT, YC-KON TERRITORY. E. & M. J, vol. 89, p. 963. 2½ columns.
- WHITE RIVER COPPER PROPERTIES.

 By G A. R. Lewington Min. &
 Sci. Press, vol. 99, p. 755. 2½ columns. I.
- THE KENNICOTT BONANZA COPPER MINE, ALASKA. By L. W. Storm. E & M J, vol. 89, p. 1224. 9½ columns. I.
- COPPER DEPOSITS ON KASAAN PENIN-SULA, PRINCE OF WALES ISLAND. By C. W. Wright and S. Paige U. S. G. S., Bull. 345, p. 98 18 pages. I. 1907.
- Some Economic Gold Deposits of Alaska. By F. C. Lincoln. E. & M. J., vol. 90, p. 551. 11 columns.
- GOLD MINING IN ALASKA. By A. H. Brooks. E. & M. J., vol. 85, p. 311. 3 columns.
- AURIFEROUS QUARTZ VEINS IN THE FAIRBANKS DISTRICT, ALASKA. By L. M. Prindle. U. S G. S., Bull. 442, p. 210. 20 pages. I. 1909.
- Auriferous Quartz Veins on Unalaska Island. By A J. Collier. U. S. G. S., Bull. 259, p. 102. 2 pages.
- GOLD DEFOSITS OF THE SHUMAGIN ISLANDS. By G. C. Martin U. S. G S., Bull 259, p. 100. 2 pages.

- OCCURRENCE OF GOLD IN TREADWELL ORE DEPOSITS U. S. G. S, Bull. 259, p. 82. ‡ page.
- THE ALASKA TREADWELL MINES. Min. Mag, London, vol. 2, p 142, 2 columns, I.; vol. 3, p. 278, 4 columns, I.
- THE TREADWELL ORE DEPOSITS. Min. & Sci Press, vol. 95, p 117 6½ columns. I
- THE TREADWELL GROUP OF MINES. By A. C. Spencer. Min. & Sci. Press, vol 95, p. 117 6½ columns I.
- THE JUNEAU GOLD BELT, ALASKA. By A. C Spencer. U. S G S, Bull. 287. 161 pages. I. 1906.
- LODE MINING IN SOUTHEASTERN ALASKA, 1907. By C. W Wright. U. S. G. S., Bull. 345, p 78. 20 pages. I. 1907.
- LODE MINING IN SOUTHEASTERN ALASKA. By C W Wright. U S. G. S, Bull. 314, p. 47. 28 pages. I. 1906.
- YAKUTAT BAY REGION Min. & Sci. Press, vol. 99, p 719. 1 column.
- MINING ON PRINCE OF WALES ISLAND, ALASKA. By W. A Scott. Min. & Sci. Press, vol. 98, p. 885. 32 columns I.
- Mining at Shunguak, Alaska By L. Lloyd. Min. & Sci. Press, vol. 101, p. 109. 2 columns. I
- The KOYNKUK-CHANDLAR GOLD REGION, ALASKA By A. G Maddren. U. S. G. S., Bull. 442, p. 284. 32 pages I. 1909
- Gold of Prince William Sound By U. S. Grant. U. S. G. S., Bull. 379, p. 97. 1 page. 1908.
- GOLD FIELDS OF THE SOLOMON AND NINKLUK RIVER BASINS By P. S. Smith. U. S G. S., Bull. 314, p. 146. 11 pages. 1906.
- OCCURRENCE OF GOLD IN THE YUKON-TANANA REGION, ALASKA. By L. M. Prindle. U. S. G. S., Bull. 345, p. 179. 10 pages. I. 1907.

- Placer Gold Deposits of Alaska. E. & M. J, vol. 90, p. 551. 6 columns.
- New Places in Alaska. Min. & Sci. Press, vol. 97, p 842. 2 columns. Map.
- RAMPART PLACER REGION. By L. M. Prindle and F L Hess. U. S. G. S, Bull. 259, p. 104 15 pages
- THE RAMPART PLACER, YUKON-TA-NANA REGION, ALASKA By F J. Hess U S. G S, Bull. 337. 102 pages. I. 1908
- THE RAMPART GOLD PLACER REGION, ALASKA. By L. M. Prindle and F. L. Hess. U. S. G. S., Bull. 280. 54 pages I. 1906.
- THE GOLD PLACERS OF THE FORTY-MILE, BIRCH CREEK, AND FAIR-BANKS REGIONS, ALASKA. By L M. Prindle U. S. G. S, Bull 251. 89 pages. I. 1905
- THE FORTYMILE GOLD-PLACER DISTRICT, ALASKA. By L. M. Prindle. U. S. G S., Bull 345, p. 187. 12 pages. 1907.
- THE INNOKO GOLD-PLACER DISTRICT, ALASKA; WITH ACCOUNTS OF THE CENTRAL KUSKOKWIN VALLEY AND THE RUBY CREEK AND GOLD HILL PLACERS. By A G Maddren. U. S. G S, Bull. 410 87 pages. I. 1910.
- GOLD PLACERS OF THE INNOKO DISTRICT. By A. G. Maddren. U. S. G. S., Bull. 379, p. 238. 29 pages. 1908.
- PRELIMINARY REPORT ON THE CAPE NOME GOLD REGION, ALASKA. By F. C. Schrader and A. H. Brooks. U. S. G. S., Special Publications, 1900. 56 pages. I.
- THE NOME REGION, ALASKA. By F. H. Moffit U. S. G S., Bull. 314, p. 126. 18 pages. I. 1906.
- THE GOLD PLACERS OF TURNAGAIN ARM. By F. H. Moffit. U. S. G. S., Bull. 259, p. 90. 9 pages. I.
- THE CAPE YAKTAZ PLACEES. By G. C. Martin. U. S. G. S., Bull. 259, p. 88. 2 pages.

- The Iron Creek Region. By P. S Smith. U. S. G. S, Bull 379, p. 302. 53 pages. I 1908.
- PLACERS OF THE GOLD HILL DISTRICT. By A. G. Maddren. U. S. G. S., Bull. 379, p. 234 3 pages. 1908.
- GOLD PLACERS OF THE RUBY CREEK DISTRICT. By A. G. Maddren U. S. G. S., Bull. 379, p. 229. 5 pages. I. 1908.
- THE GOLD PLACERS OF PARTS OF SEW-ARD PENINSULA, ALASKA, INCLUDING THE NOME, COUNCIL, KOUGAROK, PORT CLARENCE AND GOODHOPE PRECINCTS. By A. J. Collier. U. S. G. S., Bull 328. 343 pages I. 1908
- THE FAIRBANKS GOLD PLACER REGION By L. M. Prindle and F. J. Katz. U. S. G. S., Bull. 379, p. 181. 20 pages. I. 1908.
- YUKON GOLD. By O. B. Perry. Min. & Sci. Press, vol. 96, p. 556. 3 columns.
- THE PORCUPINE PLACER DISTRICT, ALASKA. By C. W. Wright. U. S. G. S., Bull 236. 35 pages. I. 1904.
- THE FAIRHAVEN GOLD PLACERS OF THE SEWARD PENINSULA, ALASKA. By F. H. Moffit. U. S. G. S., Bull. 247. 85 pages. I. 1905.
- GOLD PLACERS OF THE MULCHATNA, ALASKA By F J. Katz. U. S G S, Bull. 442, p. 201. 1½ pages. 1909.
- PELLEY ROSS AND GRAVEL RIVERS. By J. Keele. Mm. & Sci. Press, vol. 99, p. 66 2 columns
- HAINES DISTRICT, ALASKA By W. A. Scott. Min. & Sci. Press, vol. 99, p. 198. 2½ columns. I.
- THE OCCURRENCE OF IRON ORE NEAR HAINES, SOUTHEASTERN ALASKA. By A. Knopf U. S. G. S., Bull. 442, p. 144. 3 pages. 1909
- THE POSSIBLE USE OF PEAT FUEL IN ALASKA. By C. A. Davis. U. S. G. S., Bull. 379, p. 63. 4 pages. 1908.
- THE PREPARATION AND USE OF PEAT AS FUEL IN ALASKA. By C. A. Davis. U. S. G. S., Bull. 442, p. 101. 32 pages. 1909.

- See also THE UNITED STATES.
- Notes on the Petroleum Fields of Alaska. By G. C. Martin. U. S. G. S., Bull 259, p. 128. 11½ pages. I.
- PETROLEUM AT CONTROLLER BAY. By G C. Martin. U.S.G.S, Bull. 314, p. 89. 35 pages. I. 1906
- THE PETROLEUM FIELDS OF THE PACIFIC COAST OF ALASKA, WITH AN ACCOUNT OF THE BERING RIVER COAL DEPOSIT By G. C. Martin. U. S G. S., Bull. 250. 64 pages. I. 1905
- KATALLA, ALASKA, OIL FIELD. By W. T. Prosser. M & M., vol. 31, p 731.
- THE BUILDING STONES AND MATERIALS OF SOUTHEASTERN ALASKA By C. W. Wright. U. S G. S, Bull. 345, p. 116. 10 pages. 1907.
- Makushin Sulphur Deposits, Unalaska. By N. O. Lawton. Min. & Sci. Press, vol. 98, p 258. 4 colums. I.
- RECENT DEVELOPMENT OF ALASKAN
 TIN DEPOSITS By A. J. Colher.
 U. S. G. S., Bull. 259, p. 120. 7½
 pages. I.
- TIN IN YORK REGION, ALASKA. By A. H. Brooks. U. S. G. S., Mineral Resources. 1900.
- Grology of the Seward Peninsula Tin Deposits, Alaska. By A. Knopf. U. S. G. S., Bull. 358. 72 pages. I. 1908.
- The Seward Peninsula Tin Deposits, Alaska. By A. Knopf. U. S. G. S., Bull. 345, p. 251. 18 pages. I. 1907.
- TIN DEPOSITS OF CAPE PRINCE OF WALES, ALASKA. By A. H. Fay. Min. & Sci. Press, vol. 95, p. 744. 6 columns. I.
- TIN-DEPOSITS OF CAPE PRINCE OF WALES, ALASKA. By A. H. Fay. T. A. I. M. E., vol. 38, p. 669. 9 pages. I.
- OCCURRENCE OF WOLFRAMITE AND CASSITERITE IN THE GOLD PLACERS

OF DEADWOOD CREEK, BIRCH CREEK DISTRICT, ALASKA By B. L. Johnson. U. S. G. S., Bull. 442, p. 246. 5 pages. 1909.

Argentine Republic

- Mining in the Argentine. By C. Janin. Min. & Sci Press, vol. 101, p. 574. 4 columns. Map.
- PLACERS OF TIERRA DEL FUEGO. By S. H. Loram Min. & Sci. Press, vol. 99, p. 125. 6 columns.

Arizona

- THE MINERAL DEPOSITS OF THE CER-BAT RANGE, BLACK MOUNTAINS, AND GRAND WASH CLIFFS, MOHAVE COUNTY, ARIZONA. By F. C. Schrader. U. S. G. S., Bull. 340, p. 53. 31 pages. I. 1907.
- THE ORE DEPOSITS OF SOUTHERN ARIZONA. Min. & Sci. Press, vol. 99, p. 359. 1 column.
- A RECONNAISSANCE OF PARTS OF NORTHWESTERN NEW MEXICO AND NORTHERN ARIZONA. By N. H. Darton. U. S G. S., Bull. 435, 88 pages. I. 1910
- THE GILA RIVER ALUM DEPOSITS. By C. W. Hays. U S. G. S., Bull. 315, p. 215. 10 pages. I. 1906.
- Notes on the Occurrence of Cinnabar in Central Western Arizona By W. Bancroft. U S. G. S., Bull. 430, p. 151. 3 pages. 1909.
- THE CLIFTON-MORENCI DISTRICT OF ARIZONA. By W. L. Tovote. Mm. & Sci. Press, vol. 101, p 770, 6½ columns, Map; p. 831, 12 columns. I.
- RECENT DEVELOPMENTS IN CLIFTON-MORENCI DISTRICT, ARIZONA. By A. W. Hixson. E. & M. J., vol. 85, p. 251. 12 columns.
- COPPER DEPOSITS OF SILVERBELL, ARIZONA. By C. F. Tolman. Min. & Sci Press, vol. 99, p. 710. 5 columns. I.

- THE MIAMI COPPER MINE, ARIZONA. By R. L. Herrick. M. & M., vol. 30, p. 80. 9½ columns. I.
- MINING AT MIAMI, ARIZONA. By R. L. Herrick. M & M., vol. 30, p. 751. 12 columns. I.
- COPPER MINING IN METCALF DISTRICT, ARIZONA. By P. B. Scotland. E. & M J., vol 90, p. 118. 16 columns. I.
- DISSEMINATED CHALCOCITE DEPOSITS AT RAY, ARIZONA. By C. F. Tolman, Jr. Min. & Sci Press, vol. 99, p. 622. 5½ columns. I.
- RAY COPPER DISTRICT, ARIZONA. By W. H. Truesdale. Min. & Sci. Press, vol. 98, p 794. 7½ columns. I.
- United Verde Mine, Arizona. By L. C. Craton Min. & Sci. Press, vol. 96, p. 171. 1½ columns. Map.
- ORE DEPOSITS IN THE VICINITY OF PARKER, ARIZONA. E. & M. J., vol. 88, p. 1171. 2 columns.
- THE SUPERIOR AND BOSTON MINE, ARIZONA. By R. L. Herrick. M. & M., vol. 31, p. 112. 8½ columns. I.
- COPPER DEPOSITS OF THE GLOBE-KELVIN DISTRICTS, ARIZONA. By E. Higgins. E. & M. J., vol. 89, p. 769, 11 columns, I.; p. 813, 9\frac{3}{4} columns, I.; p. 870, 13\frac{1}{4} columns, I.
- THE BISBEE COPPER FIELD. Min. & Sci. Press, vol. 99, p. 358. 3 columns I.
- STANLEY BUTTE DISTRICT, ARIZONA.

 By F Wolf, Jr Min. & Sci. Press,
 vol. 101, p. 13. 1½ volumes. Map.
- COURTLAND ARIZONA, A NEW CAMP. By H. W. Chittenden. E. & M. J., vol. 87, p. 312. 12 columns.
- THE SOUTHERN ARIZONA COPPER FIELDS. By C. F. Tolman, Jr. Min. & Sci. Press., vol. 99, p. 356, 10 columns, I; p. 390, 7½ columns, I.
- THE OCTAVE MINE, ARIZONA. By J. E. Russell. E. & M. J., vol. 85, p. 211. 1½ columns. I.

- THE GOLD ROAD MINE, ARIZONA. By J. C. Kennedy. Mm. & Sci Press, vol. 101, p. 773. 1½ columns
- Notes on the Placer Deposits of Greaterville, Arizona. By J. M. Hill U. S. C. S., Bull. 430, p. 11. 12 pages. I. 1909.
- MARBLE PROSPECTS IN THE CHIRI-CAHUA MOUNTAINS, ARIZONA By S. Paige. U S. G S., Bull. 380, p. 299. 13 pages I. 1908.
- SOME OCCURRENCES OF MOLYBDENITE IN THE SANTA RITA AND PATAGONIA MOUNTAINS, ARIZONA. By F. C. Schrader and J. M. Hill. U. S. G. S., Bull. 430, p. 154 10 pages I. 1909.
- A SILVER BEARING DIORITE IN SOUTH-EEN ARIZONA. By J. Bond. E. & M J., vol. 89, p. 1268. 4 columns.
- Note on the Occurrence of Tungsten Minerals Near Calabasas, Arizona. By J. M. Hill. U. S. G. S, Bull. 430, p. 164. 3 pages.
- A Tungsten Deposit in Western Arizona. E. & M. J., vol. 90, p. 1103. ½ column.
- THE TURQUOISE MINING DISTRICT, ARIZONA. By J. M. Platt E. & M. J., vol. 87, p 213. 13 columns.
- THE ZINC DEPOSITS OF MOHAVE COUNTY, ARIZONA. E & M. J., vol. 89, p. 775. 2½ columns.
- Note on a Wolframite Deposit in the Whetstone Mountains, Arizona. By F. L. Hess. U. S. G. S, Bull. 380, p. 164. 2 pages. 1908.

Arkansas

- MINERAL DEPOSITS OF WESTERN ARKANSAS. By W. C. B. Allen. E. & M. J., vol 89, p. 1328. 2 columns.
- THE ARKANSAS ANTIMONY DEPOSITS. By F. L. Hess. U. S. G. S., Bull. 340, p 241. 12 pages. I. 1907.
- THE CLAYS OF ARKANSAS. By J. C. Branner. U. S. G. S., Bull. 351, 247 pages. I. 1908.

- CLAYS OF GARLAND COUNTY, ARKAN-SAS. By E. C. Eckel. U. S. G. S., Bull. 285, p. 407. 3½ pages. 1905.
- THE ARKANSAS COAL FIELD By A. J. Collier. U. S. G S., Bull 316, p. 137. 25 pages. I. 1906.
- THE ARKANSAS COAL FIELD. By A. J. Collier. U. S G. S., Bull. 326, 158 pages. I. 1907.
- Some Facts and Corrections Regarding the Diamond Region of Arkansas. By J. C. Branner. E. & M. J., vol. 87, p. 371. 4 columns.
- PRODUCTION OF DIAMONDS FROM THE ARKANSAS FIELD E. & M. J., vol. 87, p. 155. 1½ columns.
- THE ARKANSAS DIAMOND FIELDS. By O. Q. Millar Min. & Sci. Press, vol. 99, p. 534. 1½ columns.
- THE ARKANSAS DIAMOND FIELDS IN 1909. By J. F Fuller. E. & M. J, vol. 89, p. 767. 4 columns I.
- DIAMOND MINES OF ARKANSAS By J. L. Cowan. Min. & Sci Press, vol. 101, p. 178. 4 columns. I.
- DIAMONDS IN ARKANSAS. By G. F. Kunz and H. S. Washington. T. A I. M. E., vol. 39, p. 169. 7 pages
- DIAMOND MINE IN PIRE COUNTY, ARKANSAS. By J. T. Fuller. E. & M. J., vol. 87, p. 152. 10½ columns.
- DEVELOPED PHOSPHATE DEPOSITS OF NORTHERN ARKANSAS. By A. H. Purdue. U. S. G. S., Bull. 315, p. 463. 11 pages. 1906.
- THE SLATES OF ARKANSAS By A H. Purdue. U. S. G. S., Bull. 430, p. 317. 18 pages. I. 1909.
- Zinc and Lead in Arkansas. By L. L. Wittich. M. & M., vol. 31, p. 10. 3 columns. Map.

Asia.

- Principal Mines in Asia. Min. & Sci. Press, vol. 96, p. 161. 1½ columns. Table.
- A JOURNEY TO CENTRAL ASIA. By A. Adiassewich. T. I. M. & M., vol. 17, p. 498. 28 pages.

MERCURY MINES AT KONIAH, ASIA MINOR. By F. F. Sharpless E. & M. J, vol. 86, p. 602. 74 columns. I.

Australia

- THE MINING INDUSTRY IN QUEENS-LAND, AUSTRALIA By G. W. Williams. E. & M. J, vol. 87, p. 603. 11½ columns. I
- Mining in Australia. By W J. Loring. Min. & Sci. Press, vol 95, p 501. 4 columns. Maps.
- Mining in Australia. By H. L. Wilkinson. Min. & Sci. Press, vol. 95, p. 616. 5 columns.
- THE LEADING MINES OF AUSTRALIA.

 Min. & Sci. Press, vol. 96, p 11.

 1 column. Table.
- THE MINING WEALTH OF VICTORIA. By J. Strling. T. Au. I. M. E., vol 2, p. 7. 19 pages.
- FROM CAPE HOWE TO THE MURRAY ON THE VICTORIAN BORDER LINE: Exploration. By S Hunter T. Au. I. M. E., vol. 5, p. 92. 4 pages.
- Mining in Australasia in 1908. By F S Mance. E & M. J, vol 86, p. 143. 5\(^1\) columns.
- MINING OUTLOOK IN WESTERN AUSTRALIA. By A. Montgomery Min. & Sci. Press, vol. 101, p. 840. 5 columns
- THE BLACK RANGE DISTRICT OF WESTERN AUSTRALIA. By J. B. Wilson. E. & M. J., vol. 88, p. 715. 9 columns. I.
- MINING IN WESTERN AUSTRALIA. By A. Montgomery. Min. Mag, London, vol. 3, p. 431. 10 columns. Map.
- PROGRESS OF MINING IN WESTERN AUSTRALIA By R. Hamilton. T. Au. I. M. E., vol. 13, p. 7. 18½ pages. I.
- Some Geological Considerations Affecting Western Australian Ore-Deposits By A. Montgomery. T. Au. I. M. E., vol. 13, p. 160. 32 pages. I.

- REMARES ON THE BROWN COAL BEDS AND ASSOCIATED DEPOSITS OF THE WERRIBEE PLAINS, VICTORIA. By A. E. Kitson. T Au. I. M. E., vol. 8, pt. 2, p 255. 12 pages.
- NOTES ON VICTORIAN BROWN COAL BEDS. By J. Stirling T. Au. I. M. E, vol. 1, p. 35 21 pages. I.
- THE MOUNT LYELL MINING FIELD. By J. W. Gregory. T. Au. I. M. E., vol. 10, p. 29. 169 pages.
- THE ORE DEPOSITS OF MOUNT LYELL, COPPER DEPOSITS. By J. W Gregory. T. Au. I. M E, vol. 10, p. 113. 34 pages. I.
- Notes on Mount Read and Its Sulphide Ore Bodies. By L Williams. T. Au. I. M. E., vol. 8, pt 1, p. 74 6 pages
- COPPER MINES IN CHILLAGOE DISTRICT, QUEENSLAND. By G W. Williams. E. & M. J., vol. 87, p. 1125 6 columns. I
- THE MANY PEAKS COPPER MINE, QUEENSLAND, AUSTRALIA. By J. B. Wilson. E. & M. J., vol. 88, p. 872. 7² columns I.
- THE CLONGURRY COPPER DISTRICT,
 QUEENSLAND. By G. W. Williams.
 E & M. J, vol. 88, p. 155. 13½ columns. I.
- COBAR GOLD AND COPPER FIELD, NEW SOUTH WALES. By G. W. Williams. E. & M. J, vol. 86, p. 957. 4 columns. I.
- SPECULATION ON THE ORIGIN AND FORMATION OF THE DIAMOND, WITH ESPECIAL REFERENCE TO ITS FORMATION AND POSITION AT BINGAR, NEW SOUTH WALES. By T. Mercer. T. Au. I. M. E., vol. 3, p. 56. 14; pages.
- Does an Australian Kimberley Exist? By J Plummer. Min. & Sci. Press, vol. 99, p. 93. 2\frac{2}{3} columns.
- Gems in New South Wales and Queensland. By F. S. Mance. E & M. J., vol. 86, p. 115. ½ column.
- THE MOUNT MORGAN GOLD AND COPPER MINE. By G. W. Williams.

- E & M. J, vol 87, p. 635 12½ columns I.
- OCCURRENCE OF ORE IN MOUNT MOR-GAN MINE E. & M. J, vol. 87, p. 747 1 column.
- THE MOUNT MORGAN MINE, CENTRAL QUEENSLAND. By J B Wilson. E & M J., vol. 87, p. 746 19 columns. I.
- NATURE OF THE MOUNT MORGAN ORE DEPOSITS. E & M. J., vol 87, p. 635. 1½ columns.
- THE MT. MORGAN MINE. By O. M. Colvocosesses. M. & M, vol. 29, p 3 4½ columns I.
- THE MOUNT MORGAN MINE. Min. & Sci Press, vol 95, p. 524. 3 columns. I
- Tellurium in the Ores of the Hauraki Goldfields, New Zealand. By F. B. Allen T. Au. I. M. E., vol. 7, p. 94. 4 pages.
- THE SYNCLINAL OR "INVERTED SAD-DLE" REEFS OF THE BENDIGO GOLDFIELD. By W. H. Cundy T. Au. I. M. E, vol 8, pt. 2, p. 278. 10 pages. I.
- Notes on the Lefroy Goldfields. By L. Jolly. T. Au. I. M E., vol. 4, p 132. 6 pages
- MINING ON PRIVATE PROPERTY ON THE GOLDFIELDS OF WESTERN AUSTRA-LIA. By E Lidgey. T Au. I M. E., vol. 8, pt. 1, p 1. 10 pages. I.
- The Gold Fields of Victoria. Min. & Sci Press, vol. 20, p. 120, 1 column; p. 130, 12 columns; p. 234, 2 columns; p. 266, 1 column.
- NOTES ON THE GEOLOGY, QUARTZ REEFS AND MINERALS OF THE WALHI GOLDFIELD, NEW SOUTH WALES, AUSTRALIA. By P. C Morgan. T. Au. I. M. E., vol. 8, pt. 2, p. 164. 23½ pages. I.
- GOLD IN SAIT LAKES IN WESTERN AUSTRALIA. T. Au. I. M. E., vol. 8, pt. 1, p. 32. 1 page.
- NOTES ON THE AURIFEROUS DEVONIAN FORMATIONS OF GIPPSLAND, VIC-TORIA. By H. Herman. T. Au. I.

- M. E, vol. 5, p. 157. 12 pages. Maps
- A Few Notes and Observations on the Reduction and Ore-Dressing of Auriferous Quartz Veinstone in Victoria By H. Rosales. T. Au. I M E., vol. 5, p 81. 12 pages. Tables.
- AURIFEROUS VEINS AT CHARTERS TOWERS, AUSTRALIA By W J. Paull T Au I M E., vol. 3, p 243. 6 pages.
- Some Gold-Bearing Rocks at Bingara, New South Wales. By C C H Mole T. Au. I M. E., vol. 2, p. 114 2½ pages.
- Physiography and Geology of the Wadnaminga Goldfields, South Australia. By F. D. Johnson. T. Au. I. M. E., vol. 2, p. 58. 10 pages I
- GOLD DEPOSITS OF COTHY, SOUTH WALES. By B W Holman. Min. Mag, vol. 4, p 374 8\frac{3}{2} columns. I
- LEADING PRODUCERS OF KALGOORLIE, WEST AUSTRALIA. By G. W. Williams. E & M J., vol. 85, p. 403. 3½ columns.
- IMPRESSIONS OF THE COUNTRY BETWEEN COOLGARDIE AND McDon-NELL RANGES. By H. V. Smith. T. Au. I M. E., vol. 8, pt. 1, p. 68. 41 pages.
- THE DISCOVERY AND OCCURRENCE OF TELLURIDE OF GOLD UPON THE KALGOORLIE GOLDFIELDS, E AS T COOLGARDIE DISTRICT, WESTERN AUSTRALIA. By A. G. Holroyd. T. Au. I. M. E, vol 4, p. 186. 8 pages.
- ALLUVIAL DEPOSITS IN WESTERN AUSTRALIA. T. Au. I. M. E., vol. 13, p. 182. 2 pages.
- DEEP LEAD MINING IN AUSTRALIA. By D. H. Browne. Min. & Sci. Press, vol. 97, p. 565. 9½ columns. I.
- DEEP LEADS OF VICTORIA: The Cainozoic Buried Auriferous River Deposits. By H. L. Wilkinson, T. I.

- M. & M., vol. 17, p. 210. 58 pages I.
- GOLD NUGGETS OF VICTORIA T. Au. I. M E, vol 2, p 23. 1 page.
- Two Important Iron Ore Deposits of Australia. By J. B. Wilson. E. & M J, vol. 89, p. 724. 162 columns I
- THE SILVER-LEAD-ZINC MINES AT BROKEN HILL, NEW SOUTH WALES. By G W Wilhams E. & M. J., vol. 86, p 793. 16½ columns. I.
- REMINISCENCES OF BROKEN HILL By J. Warren. T Au I. M E, vol. 9, p. 1. 23 pages. I.
- Some Notes on the White Cliffs Opal Fields, Wilcannia, New South Wales. By F. G. de v. Gipps. T. Au I M E, vol 2, p. 70. 6 pages; p 76, 5 pages I.
- THE AUSTRALIAN OIL SHALE INDUSTRY. E. & M. J., vol. 87, p 1051. 12 columns.
- OIL SHALE DEPOSITS, BLUE MOUNTAINS, NEW SOUTH WALES. By H. L. Jene. E & M. J., vol. 90, p. 407. 4½ columns. D.
- THE CLARENDON PHOSPHATE DR-POSIT, NEAR DUNEDIN, NEW ZEA-LAND. By A. Andrew. T. Au. I. M. E, vol. 11, p. 177. 20 pages. I.
- RADIUM IN AUSTRALIA. By J. Plummer. Min. & Sci. Press, vol 100, p. 292. 1½ columns.
- Broken Hill Silver Mine. By E. C. Andrews. Min. & Sci Press, vol 98, p. 158. 2 columns.
- ORE DEPOSITS OF THE PEAKS SILVER FIELD, NEW SOUTH WALES. By C. O. G. Larcombe T Au I M. E., vol. 11, p. 128. 8 pages. I
- TIN MINING AND MILLING IN NORTH QUEENSLAND. By G. W. Williams. E. & M. J., vol 87, p. 1092. 6½ columns.
- THE NORTH DUNDAS TIN DISTRICT. By J. M. Bell. Min. Mag., vol. 4, p. 59. 4 columns. Map.

Austria-Hungary

- PRODUCT OF THE MINES, SMELTING FURNACES AND SALT WORKS IN THE AUSTRIAN EMPIRE. Min Mag, vol. 3, p. 141. 20 pages.
- NAGYBANYA, HUNGARY. By E. Skewes. Min. & Sci. Press, vol. 96, p. 66 7½ columns. I.
- THE BOICZA GOLD MINES IN HUN-GARY. By N B. Knox. Min. & Sci Press, vol. 100, p. 31. 8 columns. I.
- THE VERESPATAK-ABRUDBANYA (Gold)
 DISTRICT, HUNGARY. By G. Slujka.
 E. & M. J., vol. 85, p 154. 1½ columns.
- THE GOLD ALLUVIALS OF THE RIVER DRAU IN HUNGARY. By A. von Gernet. T. I M. & M., vol. 17, p. 439 4 pages.

Belgium

- MINING OPERATIONS IN THE PROVINCE OF HAINAUT, BELGIUM. Min. Mag., vol. 3, p. 255. 4 pages.
- PHOSPHATE MINING IN BELGIUM T.

 I. M. E., vol 37, p. 683. 2½ pages.
- THE ZINC ORES OF LA MALLIENE (Belgium) By H. De Pauw. T. I. M E, vol. 37, p. 651. 1½ pages.

Bolivia

- Trn Mining in Bolivia. By W. R. Rumbold. Min. Mag., London, vol. 2, p. 451. 6 columns. I.
- Tin Mining in Bolivia. By W. Gray and A. L. Halden. Min. Mag., London, vol. 3, p. 203. 6 columns. I.
- BEDDED COPPER DEPOSITS OF CARANGAS, BOLIVIA. By R. Hawkhurst, Jr. E. & M. J., vol. 90, p. 909. 124 columns. I.
- PROSPECTING FOR "BLACK DIAMONDS."
 By A. S. Atkinson. M. & M., vol. 30, p. 644. 2½ columns.
- THROUGH THE BOLIVIAN HIGHLANDS. By E. P. Mathewson. Min. & Sci. Press, vol. 97, p. 227, 4 columns; p. 263, 8½ columns, I.

- GOLD DEPOSITS IN BOLIVIA. M. & M., vol 30, p. 379. 1 column. Map.
- SUCHEZ DE BOLIVIA HYDRAULIC MINE. By W. E. G. Firebrace. Mm. & Sci. Press, vol. 98, p. 287. 3 columns I. The Chorolque Tin District,

Bolivia. Min. Mag., vol. 4, p. 213. 4 columns. I.

. Brazil

- IRON ORE DEPOSITS OF BRAZIL. By O. A. Derby. E. & M. J., vol. 88, p. 1258 3\frac{2}{3} columns.
- MINERAL RESOURCES OF THE BAHIA HIGHLANDS, BRAZIL. E & M J., vol. 87, p 1029. 12½ columns. I.
- Brazilian Diamonds Min. & Sci. Press, vol. 95, p 24. 1 column.
- OCCURRENCE OF THE DIAMONDS OF BAHIA, BRAZIL. E. & M. J., vol. 87, p. 984 5 columns. I.
- THE DIAMOND BEARING HIGHLANDS OF BAHIA, BRAZIL. By J. C. Branner E & M. J, vol 87, p. 981, 17½ columns, I; p. 1029, 12½ columns, I.
- Brazilian Diamond Mining. E. & M J., vol. 85, p. 442. 1 column.
- THE DIAMANTINA DISTRICT OF MINAS GERÆS. By G. W. Lindsay. E. & M. J., vol. 87, p. 856. 2 columns.
- MINING FOR GEMS IN BRAZIL. By A. S. Atkinson. E. & M. J., vol. 87, p. 1234. 5 columns.
- AURIFEROUS ALLUVIALS OF THE UPPER AMAZON VALLEY By Sir W. M. Conway. E. & M. J., vol. 87, p. 496. 2 columns.
- Brazil's Iron-Ore Deposits. By G. E. Anderson M. & M., vol. 31, p. 7. 5 columns.
- MANGANESE DEPOSITS OF MORRO DA MINA, BRAZIL. By J. Lustosa and J. C. Branner. E. & M. J., vol. 86, p. 1196. 5² columns. I.
- THE THORIUM NITEATE INDUSTRY. M. & M., vol. 30, p. 768. 11 columns.

British Columbia

- BRITISH COLUMBIA MINES AND MINERALS. By E. Jacobs. E. & M J., vol 90, p. 257. 4½ columns
- THE COAST DISTRICT OF BRITISH CO-LUMBIA. E & M. J, vol. 87, p. 888. 4½ columns.
- MINING IN BRITISH COLUMBIA IN 1908. By E Jacobs M & M, vol 29, p. 327. 3 columns.
- British Columbia Mining, 1909 Min & Sci. Press, vol 101, p. 149. 3\frac{1}{3} columns.
- Notes on Mother Lode in British Columbia. By R. H. Allen E. & M. J., vol. 88, p. 1101 7 columns I.
- MINING IN BRITISH COLUMBIA IN 1909. By E. Jacobs M. & M, vol. 30, p. 407. 2 columns.
- THE MINERAL RESOURCES OF THE QUEEN CHARLOTTE ISLAND, BRITISH COLUMBIA. By J McLellan. J C. M. I., vol. 13, p 288. 8 pages. I. Map.
- Observations on the Geology and Ore Deposits of Camp Heddley, British Columbia. By C. Camsell. J. C. M. I., vol. 11, p 423. 10 pages. Maps.
- A PARTIAL BIBLIOGRAPHY OF PUBLICATIONS REFERRING TO THE GEOLOGY AND MINERAL INDUSTRY OF ALBERTA, BRITISH COLUMBIA AND THE YUKON. By J. C. Gwillim. J. C. M. I, vol 11, p. 433 112 pages.
- The "White Bear Mine," Rossland, British Columbia. By H. H. Yuill. J. C. M. I., vol. 11, p. 525. 16 pages. I.
- THE GEOLOGY AND ORE DEPOSITS OF FRANKLIN CAMP, BRITISH COLUM-BIA. By R. W. Brock. J. C. M. I., vol. 10, p. 170. 10 pages. I.
- New Coalfield in British Columbia. E. & M. J., vol. 85, p. 544. 2 column.

- THE HOSMER MINES, LTD., BRITISH COLUMBIA: Coal By H. H. Yull J. C. M. I, vol. 13, p. 230 27 pages I. Maps.
- THE NICOLA VALLEY COAL-FIELD, BRITISH COLUMBIA. By M. Roberts. T A I. M. E., vol 40, p 798, 6 pages. I
- THE NICOLA VALLEY COAL-FIELD, BRITISH COLUMBIA By M. Roberts. T A I M. E., vol 40, p 798 6 pages. I.
- THE CLASSIFICATION OF NICOLA VAL-LEY COALS, BRITISH COLUMBIA. By S. J. Castleman. J. C. M. I, vol. 13, p 600. 3 pages.
- The Northern Cascades: Mining Along the International Boundary. By H F. Evans. Mm & Sci. Press, vol. 100, p. 448. 4 columns I.
- Notes on the Tyre Copper Mine. By W H Weed. E. & M. J., vol. 85, p. 199. 6½ columns. I.
- FURTHER OBSERVATIONS RELATIVE TO THE OCCURRENCE OF DEPOSITS OF COPPER ORE ON THE NORTH PACIFIC AND ADJACENT ISLANDS FROM THE SOUTHERN BOUNDARY OF BRITISH COLUMBIA TO THE ALASKAN PENINSULA. By W. M. Brewer. J. C. M. I, vol 10, p. 195 14 pages.
- MINES OF THE GRANBY CONSOLIDATED, PHOENIX, BRITISH COLUMBIA. By R. H. Allen. E. & M. J., vol 88, p. 1260. 7 columns I.
- THE CENTRE STAR GROUP OF MINES, ROSSLAND, BRITISH COLUMBIA. By R. H. Allen. E. & M. J., vol. 89, p. 17. 8½ columns. I.
- LE ROI MINE AT ROSSLAND, BRITISH COLUMBIA. By R. H. Allen. E. & M. J., vol. 89, p. 220. 4 columns. I.
- BEAR RIVER DISTRICT, BRITISH CO-LUMBIA. By W. W. Rush. Min. & Sci. Press, vol. 99, p. 152. 2 columns. Map.
- THE PORTLAND CANAL MINING DISTRICT, BRITISH COLUMBIA. E. & M. J., vol. 90, p. 451. 3 columns. I.

- MAGNETITE DEPOSITS OF TEXADA AND VANCOUVER ISLANDS. By E. Lindeman J. C. M. I., vol. 13, p. 107. 15½ pages. Maps.
- THE EMMA MINE, BOUNDARY DISTRICT BRITISH COLUMBIA. By F Keffer J. C. M. I., vol. 10, p. 188. 6½ pages I. Map.
- OCCURRENCE OF MAGNETITE IN THE EMMA MINE, BRITISH COLUMBIA. J. C. M. I., vol. 10, p. 188. 6 pages I.
- ST. EUGENE MINE AND MILL, EAST KOOTENAY, BRITISH COLUMBIA By E. Jacobs. E. & M. J, vol. 89, p. 420. 7 columns. I.
- OCCURRENCE OF LEAD-SILVER ORE AT KOOTENAY, BRITISH COLUMBIA, EUGENE MINE. E & M. J., vol. 89, p. 420. 1½ columns. I.
- OCCURRENCE OF SILVER-LEAD ORES AT THE EUGENE MINE, KOOTENAY, BRITISH COLUMBIA. E. & M J., vol. 89, p. 420. 1½ columns. I.
- PLATINUM DEPOSITS IN BRITISH CO-LUMBIA. J. C. M. I., vol 13, p 317. 2½ pages
- PLATINUM MINING IN THE TULAMEEN
 DISTRICT, BRITISH COLUMBIA By
 C. Camsell J C M. I., vol. 13,
 p. 309. 15 pages. I. Map.
- See also Miscellaneous Production.

California

- THE NEW SAN FRANCISCO. By T. A. Rickard. Min. & Sci. Press, vol. 96, p. 554. 2 columns. I.
- Borax in California. Min. & Sci. Press, vol. 101, p. 400. 1½ columns.
- BORATE DEPOSITS OF CALIFORNIA. By W. B. Wainewright. T. I. M. E., vol. 37, p. 156. 6 pages.
- COAL MINING IN CALIFORNIA. Min & Sci. Press, vol. 95, p. 186. 7 column.
- COAL IN THE MOUNT DIABLO RANGE, MONTEREY COUNTY, CALIFORNIA. By R. Arnold. U. S. G. S., Bull. 285, p. 223. 2 pages. I. 1905.

- COAL OF STONE CANYON, MONTEREY COUNTY, CALIFORNIA. By M. R. Campbell. U S. G S, Bull. 316, p. 435. 4 pages. 1906.
- THE OCCURRENCE OF COPPER IN SHASTA COUNTY, CALIFORNIA. By L. C. Groton. U. S. G. S., Bull. 430, p. 71. 40½ pages. I. 1909.
- THE BALAKLALA CONSOLIDATED COP-PER COMPANY, CALIFORNIA. E. & M. J., vol. 87, p. 501. 9 columns. I.
- PRIMARY CHALCOCITE IN CALIFORNIA. By O. H. Hershey. Min. & Sci. Press, vol. 96, p. 429. 3 columns.
- THE GENESIS OF THE COPPER ORE IN SHASTA COUNTY, WEST OF THE SACRAMENTO RIVER. By W. Forestner. Min. & Sci. Press, vol. 97, p. 261. 3 columns.
- COPPER MINES AND SMEJITERIES OF SHASTA COUNTY, CALIFORNIA. By G. A. Packard. E. & M. J., vol. 88, p. 393. 202 columns. I.
- Diamonds in California. By H. G. Hauks. Min. & Sci. Press, vol. 20, p. 162; 2½ columns; p. 194, 1 column; vol. 22, p. 140, ½ column.
- DIATOMACEOUS DEPOSITS OF NORTH-ERN SANTA BARBARA COUNTY, CALI-FORNIA. By R. Arnold and R. Anderson. U. S. G. S., Bull. 315, p. 438. 10 pages. 1906.
- California Gold Mining. Min. & Sci. Press, vol. 100, p. 17, 3 columns. I.
- MINERAL PROSPECTS AROUND DEATH
 VALLEY. By R. E. Rinehart. Min.
 & Sci. Press, vol. 97, p. 297
 4½ columns. I
- MINERAL DISTRICT OF CENTRAL CALIFORNIA. By J. B. Trask. Min. Mag, vol. 3, p. 121, 15 pages; p. 239, 12 pages.
- Mines and Mining in California: Placer Mining. Min. Mag., vol. 5, p. 193. 23 pages.
- QUARTZ MINING OPERATIONS IN CALI-FORNIA. Min. Mag., vol. 1, p. 144. 5½ pages.

- EXPERIENCE OF THE GOLD MINES OF CALIFORNIA. Min. Mag, vol. 8, p. 28, 12 pages; p. 129, 81 pages; p. 222, 6 pages; p. 477, 10 pages.
- THE NEW GOLD FIELD IN SAN DIEGO COUNTY, CALIFORNIA. Min. & Sci. Press, vol. 20, p. 200. 1 column
- MINING ON THE MOTHER LODE IN AMADOR COUNTY, CALIFORNIA. By W. H Storms. Min. & Sci. Press, vol 100, p. 897. 6 columns
- THE EXPOSED TREASURE LODE, MO-JAVE, CALIFORNIA. By C De Kalb. T. A. I. M. E., vol. 38, p. 310. 10 pages. I.
- THE STANDARD MINE, BODIE, CALI-FORNIA. By R. G. Brown. T. A. I. M. E., vol. 38, p. 343. 15 pages. I.
- Observations on the Extent of the Gold Region of California and Oregon. By W. P. Blake. Min. Mag., vol. 5, p. 32. 14 pages.
- HART A NEW CALIFORNIA GOLD CAMP. E. & M. J., vol. 85, p. 308. ½ column.
- GOLD PARK DISTRICT, CALIFORNIA. E. & M. J., vol. 90, p 600. 2 columns. I.
- BLACK DIAMOND, CALIFORNIA By O. H. Hershey. Min. & Sci. Press, vol. 98, p. 147. 1½ columns.
- GOLD MINING IN RANDSBURG QUAD-RANGLE, CALIFORNIA. By F. L. Hess. Min & Sci. Press, vol. 101, p. 508, 4 columns; p 533, 8 columns, I.
- GOLD MINING IN THE RANDSBURG QUADRANGLE, CALIFORNIA. By F. L. Hess. U. S. G. S., Bull. 430, p. 23. 24 pages. 1909.
- HOAG DISTRICT, CALIFORNIA. By N. C. Stines Min. & Sci. Press, vol. 100, p. 384. 5\frac{3}{2} columns. I.
- KEYSTONE CONSOLIDATED MINE AND ITS EARLY HISTORY. By W. H. Storms. Min. & Sci. Press, vol. 100, p. 755. 4 columns. I.
- MINING AT GRASS VALLEY AND NEVADA CITY. By G. E. Wolcott. E. & M. J., vol. 87, p. 396. 6‡ columns. I.

- MINING AT ALLEGHANY, CALIFORNIA. By F. L. Lowell. Min. & Sci. Press, vol. 100, p. 132. 3 columns I.
- Some Ore Deposits in the Inyo Range, California. By J. A. Reid Min. & Sci. Press, vol. 95, p. 80 4½ columns. I.
- GOLD MINES NEAR THE CALAVERAS BIG TREES. Min. & Sci Press, vol. 22, p 361. 1 column
- THE WEAVERVILLE-TRINITY CENTER
 GOLD GRAVELS, TRINITY COUNTY,
 CALIFORNIA. By D F. MacDonald U. S. G. S, Bull. 430, p. 48.
 11 pages I. 1909
- Santa Clara River Placers. By C. E. Jamison. Min & Sci Press, vol. 100, p 360. 2\frac{3}{2} columns.
- LA GRANGE HYDRAULIC MINE, CALIFORNIA By D. F. Campbell. Min. & Sci Press, vol. 97, p. 491. 6 columns I.
- California Gold Nuggets. Min & Sci. Press, vol. 20, p. 178. ½ column.
- THE GYPSUM DEPOSITS OF THE PALEN MOUNTAINS, RIVERSIDE COUNTY, CALIFORNIA. By E. C. Harder USG., Bull. 430, p. 407 10 pages. I. 1909.
- GYPSUM DEPOSITS NEAR CANE SPRINGS, KERN COUNTY, CALI-FORNIA. By F. L Hess. U. S. G. S., Bull. 430, p. 417. 2 pages 1909.
- A RECONNAISSANCE OF THE GYPSUM DEPOSITS OF CALIFORNIA. By F. L. Hess U S G. S, Bull 413. 37 pages I. 1910.
- An Iron Deposit in the California Desert Region. By C. C. Jones. E. & M. J., vol 87, p. 785. 10 columns. I.
- IRON ORES OF CALIFORNIA. By H. C. Harder. Min. & Sci. Press, vol. 101, p. 79. 3½ columns. Maps.
- OCCURRENCE OF AN IRON ORE DE-POSIT IN THE CALIFORNIA DESERT REGION. E. & M. J., vol 87, p. 785. 10 columns. I.

- Some Iron Ores of Western and Central California. By E C. Hader. U. S. G. S., Bull. 430, p. 219. 8½ pages. 1909.
- THE IRON AGE IRON-ORE DEPOSIT, NEAR DALE, SAN BERNARDINO COUNTY, CALIFORNIA By E. C. Harder and J. L. Rich. U. S. G. S, Bull. 430, p. 228. 12 pages I. 1909.
- IRON ORES OF THE SOUTHWEST. By C C Jones. M. & M., vol. 31, p. 574. 4½ columns.
- CHROME ORE IN CALIFORNIA. By C. G. Yale. E & M. J., vol. 85, p 101.
- Some Chromite Deposits in Western and Central California. By E. C. Harder. U. S. G. S., Bull. 430, p. 167 16½ pages. I. 1909.
- California Minerals. By A. S. Eakle. Min. & Sci. Press, vol. 96, p. 98. 2½ columns.
- Magnesite Deposits of California. By F. L. Hess. U. S. G. S., Bull. 355. 67 pages. I. 1908.
- Magnesite in California. E & M. J., vol. 87, p. 292. ½ column.
- Some Magnesite Deposits of California. By F. L. Hess. U. S. G. S, Bull. 285, p. 385. 8 pages. 1905.
- NITRATE DEPOSITS OF SOUTHERN CAL-IFORNIA By F. W. Graeff. E. & M. J., vol. 90, p. 173 2½ columns.
- OIL RESOURCES OF CALIFORNIA. By M. L. Requa. Mm. Mag., vol. 4, p. 47. 10½ columns. Map.
- OII. INDUSTRY IN CALIFORNIA IN 1909. Min. & Sci. Press, vol. 100, p. 97. 5 columns. I.
- Petroleum Development in San Joaquin Valley. E. & M. J., vol. 89, p. 964. 7 columns.
- THE CALIFORNIA OIL INDUSTRY. By C. De Kalb. Mm. & Sci. Press, vol. 100, p. 857. 5‡ columns.
- GEOLOGY OF THE COALINGA DISTRICT, CALIFORNIA. By R. Arnold and R. Anderson. U. S. G. S., Bull. 398. 354 pages. I. 1910.

- PRELIMINARY REPORT ON THE COALINGA OIL DISTRICT IN FRESNO AND KINGS COUNTIES, CALIFORNIA By R. Arnold and R. Anderson. U. S. G. S., Bull. 357. 142 pages I. 1908.
- OIL MEASURES IN THE COALINGA DISTRICT, CALIFORNIA. By W. Forstner. Min. & Sci. Press, vol. 98, p. 386. 3\frac{3}{3} columns.
- GEOLOGY AND OIL RESOURCES OF THE SANTA MARIA OIL DISTRICT, SANTA BARBARA COUNTY, CALIFORNIA. By R. Arnold and R Anderson. U. S. G. S., Bull. 322. 161 pages. I. 1907
- Geology and Oil Resources of the Cumberland District, Santa Barbara County, California. By R Arnold. U. S. G. S., Bull. 321. 91 pages. I. 1907.
- PRELIMINARY REPORT ON McKITTRICK SUNSET OIL REGION, CALIFORNIA. By R. Arnold and H. R. Johnson. U. S. G. S., Bull. 406 225 pages. I. 1910.
- THE SALT LAKE OIL FIELD NEAR LOS ANGELES, CALIFORNIA. By R. Arnold U. S G. S, Bull. 285, p. 357. 5 pages I. 1905
- THE MINER RANCH OIL FIELD, CONTRA COSTA COUNTY, CALIFORNIA. By R. Arnold. U. S. G. S, Bull 340, p. 339. 4 pages. 1907.
- LAKE VIEW GUSHER: A Large Oil Well in Midway Field, California. Min. & Sci. Press, vol. 100, p. 925, 2 columns. I
- THE LOS ANGELES OIL INDUSTRY. By P. E. Barbour. E. & M. J., vol. 88, p. 365. 5 columns.
- QUICKSILVER IN CALIFORNIA. Min. & Sci. Press, vol. 100, p. 15. 3½ columns Map.
- MERCURY MINES OF NEW ALMADEN, CALIFORNIA. Min. Mag., vol. 10, p. 142. 2½ pages.
- SODIUM SULPHATE IN SODA LAKE, CARRISO PLAIN, SAN LUIS OBISPO COUNTY, CALIFORNIA. By R.

- Arnold and H. R. Johnson. U. S. G S, Bull. 380, p. 369 3 pages. 1908.
- SODIUM SULPHATE IN SAN LUIS OBISPO COUNTY, CALIFORNIA. By R. Arnold and H. R. Johnson. Min. & Sci. Press, vol 99, p. 855. 1½ columns.
- TRIPOLI DEPOSITS OF CALIFORNIA.

 Min. & Sci Press, vol. 95, p. 54.

 † column.
- TOURMALINE IN CALIFORNIA. By J. L. Cowan. Min. & Sci. Press, vol. 100, p. 864. 4 columns
- Occurrence of Tungsten in Rand District, California. By S. A. Dolbear. E & M. J., vol. 90, p. 904. 4½ columns.
- Tungsten Mining in California. E. & M. J., vol. 86, p. 573. 2 columns. I. See also Miscellaneous Production.

Canada

- Notes on Early Mining Endeavour in Ontario. By E. L. Fralick J. C. M. I., vol. 11, p. 151. 4½ pages. Ore Deposits in Western Ontario.
- ORE DEPOSITS IN WESTERN UNTARIO. E. & M. J., vol. 90, p. 325. 3 columns.
- A VISIT TO THE MINERAL DISTRICT OF CANADA. By W. Frecheville and H. F. Marriott. T. I. M. & M., vol. 18, p. 158. 21 pages. I. Map.
- COMPANY OF CANADA, LTD. E. & M. J., vol. 85, p. 557. 7½ columns. I.
- NEW DISCOVERIES IN NORTHERN QUEBEC. By J. Obalski. J. C. M. I., vol. 10, p. 103. 3 pages.
- MINERALS AND ORES OF NORTHERN CANADA. By J. B. Tyrrell. J. C. M. I., vol. 11, p. 347. 18 pages. I.
- Notes on Recent Developments in Asbestos Mining in Quebec. By W. J. Woolsey. J. C. M. I., vol. 13, p. 408. 6 pages. I.
- On the Distribution of Assestos Deposits in the Eastern Townships of Quebec. By J. A. Dresser. J. C. M. I., vol. 13, p. 414. 26 pages. I.

- Assestos in Quebec. By F. Cirkel. E. & M. J, vol. 86, p. 461. 1 column.
- THE QUARRIES OF THE CANADIAN ASBESTOS DISTRICT. By F. Cirkel. E. & M. J., vol. 89, p. 918. 6½ columns. I.
- THE TAR-SANDS OF THE ATHABASCA RIVER, CANADA. By Robt. Bell. T. A I M. E., vol. 38, p. 836. 12 pages. I.
- THE COALFIELDS OF CANADA. By P. Thompson E. & M. J., vol. 88, p. 1271. 2 columns.
- COAL AREAS IN THE CANADIAN NORTH-WEST. E & M J, vol 90, p. 548. 4 columns.
- MINING AT LITHBRIDGE, ALBERTA By A. T. Shurick. M. & M., vol. 31, p. 635. 2 columns. I.
- THE COALFIELDS OF ALBERTA AND SASKATCHEWAN. By B. Thompson. E. & M J, vol. 88, p. 17. 3\frac{3}{2} columns.
- THE COALS AND COAL FIELDS OF ALBERTA, SASKATCHEWAN AND MANITOBA. By D. B Dowling. J C. M. I., vol. 10, p. 227. 13 pages. I. Map
- THE GALT COAL FIELD, ALBERTA, CANADA. By W. D. L. Hardie. J. C. M. I., vol. 13, p. 190. 5½ pages. D.
- THE CREIGHTON MINE OF THE CANA-DIAN COPPER COMPANY, SUDBURY DISTRICT, ONTARIO. By L. Stewart. J. C. M. I., vol. 11, p. 567. 19 pages. I.
- GOLD AREAS IN THE CANADIAN NORTH-WEST. E. & M. J., vol. 90, p. 548. 4 columns.
- GOLD IN THE EASTERN TOWNSHIPS OF THE PROVINCE OF QUEBEC. By J. Obalski. J. C. M. I., vol. 11, p. 251. 6 pages. I. Map.
- THE LARDER LAKE DISTRICT, ONTARIO. E. & M. J, vol. 85, p. 258. 2 columps.

- THE NICKEL PLATE MINE AND MILL. Min. & Sci. Press, vol. 101, p. 271. 4 columns I.
- RECENT MINING DEVELOPMENTS ON MT. SKEENA RIVER, CANADA By W. W. Leach J C M. I, vol 13, p. 357. 6 pages.
- THE OPASATIKA LAKE DISTRICT, PROV-INCE OF QUEBEC By F. Cirkel E. & M. J, vol. 87, p. 455. 3 columns. I.
- THE NEW GOLDFIELDS OF PORCUPINE, ONTARIO. By R. E Hore. E & M. J, vol 90, p. 1296. 3½ columns I.
- THE PORCUPINE DISTRICT, ONTARIO. By R. W. Brock. E. & M. J, vol. 90, p. 221 3 columns.
- THE PORCUPINE GOLDFIELD. By A. L. Simar. Min Mag, London, vol. 3, p. 348. 6 columns. I
- PORCUPINE, THE NEW GOLD REGION OF THE FAR NORTH. Min. & Sci. Press, vol. 101, p. 705. 33 columns.
- PORCUPINE DISTRICT OF ONTARIO. By W. G. Miller. Min. & Sci. Press, vol. 101, p 232 2 columns. Map.
- Porcupine Lake Region, Ontario. E & M J, vol 89, p 209 3½ columns. Map.
- THE PORCUPINE GOLDFIELD. By W. J. Loring. Min Mag, vol. 4, p 284 8 columns. I.
- THE PORCUPINE GOLD FIELD By R. A. Meyer. M. & M., vol. 31, p. 701. 4½ columns. Map.
- A Brief Description of the Gowganda Silver District in Ontario, Canada. By P. R. Iseman. Sch. Mines Quart., vol. 31, p. 172. 4½ pages. I.
- FIRST YEAR OF THE GOWGANDA DISTRICT, ONTARIO. By G. M. Colvocosesses. E. & M. J., vol. 89, p. 1218 9½ columns. I.
- THE GOWGANDA REGION IN ONTARIO. E. & M. J., vol. 88, p. 60. 5 columns.

- IMPRESSIONS OF A NEW CAMP. Gowganda. By H E West. E. & M. J., vol. 87, p. 900. 7 columns.
- Notes on the Rainy River District, Ontario. By W L Fleming E & M J., vol 88, p. 1064. 62 columns. I.
- THE EASTERN CANADIAN MINERAL BELT. By T. F Van Wagenen. Min. & Sci. Press, vol. 101, p. 372. 5\frac{2}{3} columns. Maps.
- MONTREAL RIVER DISTRICT, CANADA.

 By W. H. Collins Min & Sci.

 Press, vol. 98, p. 895 2 columns.
- Canadian Graphite. By H P. H. Brumell. J C. M I., vol 10, p 83. 20 pages.
- Modes of Occurrence of Canadian Graphite. By H. P. H Brumell. J. C. M. I, vol. 11, p. 236. 14½ pages.
- Canadian Graphite. By H. M. Lemb. E. & M. J., vol. 85, p. 360. 5½ columns.
- THE IRON ORES OF ONTARIO. By A. B. Willmott. J. C. M. I, vol. 11, p 106. 18 pages.
- THE IRON ORES OF CANADA. By C. K. Leith. J C M I., vol. 11, p 91. 16 pages.
- OCCURRENCES OF IRON ORES AT BRUCE MINES, ONTARIO. J C. M. I, vol. 10, p. 158. 2 pages. D
- IRON MINING POSSIBILITIES IN THE PROVINCE OF QUEBEC. By F. Cirkel. J. C. M I, vol. 10, p. 108. 10 pages. D.
- IRON RANGES OF NORTHERN AND NORTHWESTERN ONTARIO. E. & M. J., vol. 89, p. 360. 7 columns.
- THE MOOSE MOUNTAIN IRON RANGE, WITH SPECIAL REFERENCE TO THE PROPERTIES OF MOOSE MOUNTAIN LTD. By N. L. Leach. J. C. M. I., vol. 11, p. 147. 4 pages.
- THE BRUCE MINES, ONTARIO, 1846-1906. By H. J. Carnegie Williams. J. C. M. I, vol. 10, p. 147. 22 pages. I.

- THE HELEN MINE, MICHIPICOTEN, ONTARIO: Iron Ore. By R. W. Seelye J. C. M I, vol 13, p. 121. 14½ pages. I.
- CHROME ORE IN CANADA. By P. Thompson. E. & M J, vol 88, p. 726. 2\frac{3}{2} columns
- CHROME IRON MINING AND MILLING IN CANADA. By H. F. Strangways. E. & M. J., vol 85, p 595. 7 columns. I
- THE MOOSE MOUNTAIN IRON RANGE, CANADA. By J J. Bell. E & M. J, vol. 85, p. 805. 2½ columns. I.
- THE IRON RANGES EAST OF LAKE NIPIGON, ONTARIO. By A. P. Coleman and E. S. Moore. E. & M. J., vol. 83, p. 445. 2 columns.
- Canadian Iron Ore Industry. M. & M., vol. 31, p. 455. 62 columns. I.
- MINING IRON UNDER THE SEA. By H. W. Buker. M. & M., vol. 31, p. 569. 7 columns. I.
- THE MICA INDUSTRY IN CANADA. By F. Cirkel. E. & M. J., vol 85, p. 801. 3\frac{1}{4} columns. I.
- THE TILBURY AND ROMNEY OIL-FIELDS IN ONTARIO E. & M. J., vol. 85, p. 363. 1 column.
- The Commercial Value of the Oil-Shales of Eastern Canada, Based on their Contents by Analysis in Crude Oil and Ammonium Sulphate. By R. W. Ells. J. M. Soc. N. S., vol. 15, p. 29. 28 pages.
- THE NEW TILBURY AND ROMNEY OIL FIELDS OF KENT COUNTY, ONTARIO. By E. Coste. J. C. M. I., vol. 10, p. 77. 8 pages.
- Prat in Canada. E. & M. J., vol. 88, p. 361. 2 columns.
- THE PEAT FUEL INDUSTRY OF CANADA. E. & M. J., vol. 87, p. 905. 1 column.
- THE SILVER VEINS OF THE MONTREAL RIVER DISTRICT, CANADA. By A. E. Barlow. Min. & Sci. Press, vol. 97, p 462. 61 columns.

- MINING AT COBALT By F C Loring, E. & M. J, vol. 85, p. 905. 4 columns.
- MINING AT COBALT By F. C. Loring. J. C. M. I, vol 11, p. 335. 5 pages
- Occurrence of the Cobalt-Silver Ores of Northern Ontario J. C. M. I, vol. 11, p. 275. 12 pages.
- The Cobalt Mining District By R. Bell J C. M. I, vol 10, p 62 10 pages.
- THE ORE DEPOSITS OF THE COBALT DISTRICT, ONTARIO, CANADA. By C. R. Van Hise. J. C. M. I., vol. 10, p. 45. 16 pages.
- THE PROBABLE NUMBER OF PRODUCTIVE VEINS IN THE COBALT DISTRICT. By G. R. Mickle. J C M. I, vol. 13, p. 325 12 pages.
- THE PRESENT POSITION OF COBAIT, CANADA. By H P Davis. E. & M. J., vol 86, p. 855. 5 columns. I.
- THE COBALT SILVER DISTRICT, ONTARIO, CANADA. By W. B. Phillips. E. & M. J., vol. 86, p. 518. 2½ columns.
- COBALT, ONTARIO, CANADA. By H. B. Smith. Min & Sci. Press, vol. 96, p. 876. 5½ columns I.
- COBALT, ONTARIO, CANADA. By F. C. Loring. Min. & Sci Press, vol. 95, p 814. 2½ columns. I
- OPERATIONS IN THE COBALT DISTRICT, ONTARIO. By E. Higgins. E. & M. J., vol. 87, p. 1267. 14 columns. I.
- THE COBALT DISTRICT IN 1909. By R. E Hore. E & M. J., vol. 89, p. 703. 4 columns I
- THE SOUTH LORRAINE SILVER DISTRICT, ONTARIO, CANADA. By W. B. Phillips E. & M. J., vol. 87, p. 214. 4 columns.
- THE SILVER ISLET VEIN, LAKE SU-PERIOR. By W. McDermott. T. I. M. & M., vol. 18, p. 220 34½ pages
- OCCURRENCE OF ORE IN SILVER ISLET MINE. T. I. M. & M., vol. 18, p. 222. 4 pages.

- THE TUNGSTEN ORES OF CANADA E & M. J., vol. 88, p 729. 2½ columns.
- TUNGSTEN AND THE MOOSE RIVER SCHEELITE VEINS. By A. A Hayward. J M Soc. N S., vol. 15, p. 65 14 pages.
- THE OCCURRENCES OF TUNGSTEN ORES
 IN CANADA By T. L. Walker. J.
 C. M I, vol 11, p. 367. 4½ pages.
 See also Miscellaneous Production.

The Carolinas

- MINERAL RESOURCES OF SOUTH CAROLINA Min. Mag., vol 9, p. 1, 22 pages; p. 103, 16 pages; p. 355, 4 pages.
- THE MINERALS OF NORTH CAROLINA. By F A Genth. U. S. G S., Bull. 74. 119 pages 1891.
- MINOR MINERALS OF NORTH CAROLINA. By W. C. Kerr. U. S G. S, Mineral Resources, 1882, vol. 17. 3 pages.
- THE MINES OF SOUTH CAROLINA. By H L. Scafe. E & M. J., vol. 86, p. 1212. 4½ columns.
- THE DAN RIVER COALFIELD IN NORTH CAROLINA E. & M. J., vol. 89, p. 1239. 2 columns.
- THE COAL LANDS OF THE DEEP RIVER COMPANY IN NORTH CAROLINA. By W. R. Johnson. Min Mag, vol 1, p. 352. 13 pages.
- THE PROGRESS OF GOLD MINING IN NORTH CAROLINA. By E. W. Lyon. E. & M. J., vol. 87, p. 293. 13½ columns. I.
- Ore-Deposits of the Eastern Gold-Belt of North Carolina By W. O. Crosby. T. A. I. M. E., vol. 38, p. 849. 9 pages.
- Notes on the Gold Regions of North and South Carolina. By O. P. Leeds. Min. Mag., vol. 2, p. 27. 6 pages; p. 357, 12 pages. I.
- MICA DEPOSITS OF WESTERN NORTH CAROLINA. By D. B. Sterrett. U. S. G. S., Bull. 315, p. 400. 22 pages. I. 1906.

- MICA DEPOSITS OF NORTH CAROLINA By D. B. Sterrett. U. S. G. S, Bull. 430, p. 593. 48 pages. I. 1909
- Monazite and Monazite Mining in the Carolinas By J. H. Pratt and D. B. Sterrett. T. A. I. M. E., vol. 40, p. 313. 28 pages. I.
- MONAZITE DEPOSITS OF THE CAROLINAS. By D. B. Sterrett. U. S. G. S., Bull. 340, p. 272. 14 pages. I. 1907.
- Tin Deposits of the Carolinas. By S. M. Ball. E & M J., vol 87, p. 1130. 2½ columns.

Central America

- MINING AND TRANSPORTATION IN GUATEMALA. By C. C. Sample E. & M. J., vol. 85, p. 1194. 4½ columns.
- MINES AND MILL OF MONTEZUMA MINES, COSTA RICA. By S. F. Shaw E. & M. J, vol. 90, p. 715. 6 columns. I.

Chile

- Mines and Mining Operations in Chile, South America Min. Mag., vol 3, p 29. 13 pages.
- MINING AND METALLURGY IN CHILE. By F. A. Sundt. M. & M., vol. 30, p. 646. 4 columns. Map.
- RECENT MINING WANDERINGS IN BURMA, CHILE, and BOLIVIA. By J. H. Curle. Min. & Sci. Press, vol. 96, p. 879. 7½ columns.
- MINERALS OF CHILE, SOUTH AMERICA. By J. L. Smith. Min. Mag, vol. 5, p. 371. 11½ pages.
- GEOLOGICAL FEATURES OF THE COAL-FIELDS OF CHILE. T. I. M. E., vol 38, p. 34. 4 pages.
- THE COAL-FIELDS AND COLLIERIES OF THE REPUBLIC OF CHILE. By A. Russell. T. I. M. E., vol. 38, p. 29. 54 pages. I.

- THE CALAMA COPPER DISTRICT, CHILE. By F. A. Smith. M. & M., vol. 31, p. 473. 4 columns. I.
- THE BRADEN COPPER MINES, CHILE. By W Braden M. & M., vol. 30, p. 506. 1½ columns
- THE COLLAHUASI COPPER DISTRICT, CHILE By R. Hawxhurst. Mm. Mag., London, vol 3, p 271 14 columns I
- THE PODEROSA COPPER MINE, COL-LAHUASI, CHILE. By Robt. Hawxhurst, Jr. E & M J., vol. 85, p 490. 4 columns.
- GOLD REGION OF THE STRAIT OF MAGELLAN By R. A T. Penrose. Min & Sci. Press, vol. 98, p. 153. 3½ columns.
- NITRATE OF SODA INDUSTRY OF CHILE. By S. H. Loram. Mm. & Sci Press, vol 100, p 125, 8 columns, I.; p. 180, 10 columns. I
- THE NITER INDUSTRY OF CHILE. E. & M. J., vol 90, p. 19. 142 columns. I.

China

- Geological and Mining Notes on China. By A. Hassam. T. I. M. E., vol. 36, p. 353. 12 pages.
- MINERAL RESOURCES OF MANCHURIA. By T. T. Read. Min. Mag., London, vol. 2, p. 121. 4½ columns. I.
- NORTHERN MANCHURIA. By C. W. Purington. Min. Mag., vol. 4, p. 53. 9½ columns. I.
- COAL IN CHINA. Min. & Sci. Press, vol. 20, p. 42. ½ column.
 - COAL MINING IN MANCHURIA. By T. T. Read. Min. Mag., London, vol. 1, p. 215. 8 columns. I.
 - THE FUSHUN COLLIERY, SOUTH MAN-CHURIA. By W. A. Moller. T. A. I. M. E., vol. 41, p. 241. 4 pages.
 - THE PINGESIANG COLLERY, CHINA. By K. P. Swensen. Min. & Sci. Press, vol 101, p. 564. 7 columns. I.

- Coal Mining in China. By T. T. Read. Min. & Sci. Press, vol. 98, p. 44. 5 columns. Map.
- MINING IN NORTHERN CHINA. By F. L. Cole. Min & Sci. Press, vol. 98, p. 584. 4½ columns. Map.
- THE COAL-FIELDS BETWEEN SHAN
 HAI KUAN AND MURDEN, NORTH
 CHINA By W. A. Moller T I.
 M. E, vol. 38, p. 460 15 pages. I.
- COAL MINING IN NORTH CHINA. E. & M J, vol. 85, p. 366. 2½ columns.
- Gold Mines of Tiber By A. Del Mar. Min & Sci. Press, vol. 100, p. 254. 3\frac{2}{3} columns.
- IRON, STEEL AND FUEL IN CHINA. By W. D. B Dodson. Min. & Sci. Press, vol 97, p. 494. 2½ columns.
- THE TAYER IRON MINES, CHINA. By A. J. Saltzer. Min. & Sci Press, vol. 100, p. 546. 5 columns I.
- LEAD MINES IN SHAN STATES, CHINA. E. & M. J., vol. 88, p. 550 16½ columns. I.
- SILVER-LEAD MINES OF BAWDWIN, SHAN STATES, CHINA. By T D. La Touche and J. C. Brown. E. & & M. J., vol 88, p 550. 16½ columns. I.
- TIN PRODUCTION IN THE PROVINCE OF YUNNAN, CHINA. By W. F. Collms. T. I. M. & M., vol. 19, p. 187. 24 pages. I.
- OCCURRENCE OF TIN IN THE PROVINCE OF YUNNAN, CHINA. T I M. & M., vol. 19, p. 188. ½ page.
- See also Miscellaneous Production.

Colombia and The Guianas

- MINERAL RESOURCES OF THE SOUTH OF COLOMBIA, SOUTH AMERICA. By F. P. Gamba. E. & M. J, vol. 88, p 312. 3½ columns.
- ECONOMIC CONDITIONS IN COLOMBIA.

 By F. L. Garrison. Min. & Sci.

 Press, vol. 98, p. 550. 6 columns.

 Map.
- Notes on the Aluminum Industry in France By T. Callot. E. & M. J., vol. 89, p. 1229. 3 columns. I.

- COAL DEPOSITS IN COLOMBIA Min. & Sci. Press, vol 98, p. 220. 1½ columns I.
- THE FUTURE GOLD-OUTPUT OF COLOMBIA By H G. Granger. T. A. I. M. E, vol. 39, p 315. 10 pages.
- GOLD MINING IN COLOMBIA. By F. L. GARRISON. Min & Sci. Press, vol. 98, p. 217. 12½ columns. I.
- Pasto Gold District, Colombia Min. & Sci. Press, vol 100, p. 583. 2 columns I.
- QUARTZ MINES IN COLOMBIA, SOUTH AMERICA. By F. F. Sharpless. Min. & Sci. Press, vol. 97, p. 422 4½ columns. I.
- GOLD MINING IN COLOMBIA. By F. L. Garrison. Min. Mag., London, vol. 2, p 369. 15²/₂ columns. I.
- THE FUTURE GOLD-OUTPUT OF CO-LOMBIA. By H. G. Granger. T. A. I. M. E., vol. 39, p. 315. 10 pages.
- ALLUVIAL GOLD DEPOSITS AND MIN-ING IN COLOMBIA. By P. A. Alig. E. & M. J., vol. 90, p. 1098. 4 columns.
- COLOMBIAN GOLD PLACERS T. A. I. M. E., vol. 39, p. 418. 1 page. Table.
- GEOLOGY OF THE PLATINUM DEPOSITS OF COLOMBIA. By J. C Costello. Min. & Sci. Press, vol. 98, p. 826. 34 columns. I.
- THE GOLD DEPOSITS OF FRENCE GUIANA. E. & M. J., vol. 87, p. 400. 2\frac{2}{3} columns. I.
- THE GOLD-FIELDS OF FRENCH GUIANA AND THE NEW METHOD OF DREDGING By A. F. J. Bordeaux. T A. I.M E., vol. 41, p. 567. 28 pages. I.
- GOLD-BEARING GRAVELS IN FRENCH GUIANA. T. A. I. M. E., vol. 41, p. 575. 10 pages.

Colorado

A GAZETTEER OF COLORADO. By H. Gannett. U. S. G. S., Bull. 291, 185 pages. 1906.

- THE HISTORICAL DEVELOPMENT OF COLORADO VIEWED FROM A GEO-LOGICAL STANDPOINT By T. A Rickard. Min. & Sci. Press, vol 96, p 295 4 columns. I.
- THE MINING AND SMELTING INDUSTRY OF COLORADO. By F. Guiterman Min. & Sci. Press, vol. 101, p. 699. 3½ columns I.
- Notes on the Economic Geology of Southeastern Gunnison County, Colorado. By J M. Hill U. S. G. S., Bull. 380, p. 21. 20 pages. I. 1908.
- CLAY DEPOSITS OF THE WESTERN PART OF THE DURANGO-GALLUP COAL FIELD OF COLORADO AND NEW MEXICO. By M. K. Shaler and J H. Gardner. U. S. G. S., Bull. 315, p. 296. 6½ pages. 1906.
- PICTOU COAL FIELD LORE M. & M., vol. 31, p. 179. ½ column.
- THE YAMPA COAL FIELD, ROUTT COUNTY, COLORADO By N. M. Fenneman and H. S. Gale. U. S. G. S., Bull 285, p. 226. 14 pages. I. 1905.
- THE SOUTH PARK COAL FIELD, COLO-RADO. By C. W. Washburne. U. S. G. S., Bull. 381, p. 307. 10 pages. I. 1908.
- THE GRAND MESA COAL FIELD, COLO-RADO. By W. T. Lee. U. S. G. S., Bull. 341, p. 316. 17 pages. I 1907.
- COAL FIELDS OF THE DANFORTH HILLS AND GRANDHOGBACK IN NORTH-WESTERN COLORADO. By H. S. Gale. U. S. G. S., Bull. 316, p. 264. 40 pages. I. 1906.
- THE TRINIDAD COAL-FIELD, COLO-RADO. By G. B. Richardson. U. S. G. S., Bull. 381, p. 379. 68 pages. I. 1908.
- ROUTT COUNTY, COLORADO, COALS. By R. L. Herrick. M. & M, vol. 29, p. 230. 9\frac{2}{3} columns. I.
- THE CAÑON CITY COAL FIELD, COLORADO. By C. W. Washburne.

- U. S. G. S., Bull. 381, p. 341. 38 pages. I. 1908.
- THE COLORADO SPRINGS COAL FIELDS, COLORADO. By M. L. Goldman. U. S. G. S., Bull. 381, p. 317. 24 pages. I 1908.
- COAL OF THE DENVER BASIN, COLO-RADO. By G C Martin. U. S. G. S., Bull. 381, p. 297. 10 pages. 1908.
- THE COAL FIELD BETWEEN DURANGO, COLORADO AND MONERO, NEW MEX-ICO By J H Gardner U. S. G. S, Bull. 341, p. 352. 12 pages I. 1907.
- THE DURANGO-GALLUP COAL FIELD OF COLORADO AND NEW MEXICO. By F. C. Schrader U. S. G. S., Bull. 285, p 241 19 pages. I. 1905.
- THE DURANGO COAL DISTRICT, COLO-RADO. By J. A Taff. U S. G. S, Bull. 316, p. 321. 18 pages. I. 1906.
- THE BOOK CLIFFS COAL FIELD, BE-TWEEN GRAND RIVER, COLORADO, AND SUNNYSIDE, UTAH. By G. V. Richardson. U. S. G. S., Bull. 316, p 302. 18 pages I. 1906.
- RECONNAISSANCE OF THE BOOK CLIFFS COAL FIELD. By G. B. Richardson. U. S. G. S., Bull. 371. 54 pages. I. 1909.
- MINING COAL IN SOUTHERN COLORADO. By K. S. Guiterman. E. & M. J., vol. 88, p. 1009. 201 columns. I.
- COAL FREIDS OF SOUTHERN COLORADO.

 M. & M., vol. 30, p. 588. 3½ columns. I.
- COAL MINING AT PRIMERO, COLORADO. By R. L. Herrick. M. & M., vol. 30, p. 598. 2½ columns. I.
- THE DELAGUA COAL MINES, COLO-RADO. By F. W. Whiteside. M. & M., vol. 29, p. 317. 44 columns. I.
- THE EVERGREEN COPPER-DEPOSIT, COLORADO. By E A. Ritter. T. A. I. M E, vol 38, p 751. 15 pages. I.

- Notes on Copper Deposits in Charfee, Fremont, and Jefferson Counties, Colorado. By W. Lindgren. U. S. G. S., Bull 340, p. 157 18 pages. I. 1907.
- THE EVERGREEN COPPER-DEPOSIT, COLORADO By E. A Ritter. T. A. I. M. E , vol 38, p. 751. 15 pages I.
- FLUORSPAR IN COLORADO. By E. F. Burchard Min & Sci. Press, vol. 99, p. 258 6½ columns. Map
- COLORADO'S RARE METAL INDUSTRY.

 By H Fleck M & M., vol 30,
 p. 63. 3½ columns
- GEOLOGICAL DISTRIBUTION OF THE PRECIOUS METALS IN COLORADO By T A. Rickard Mm & Sci. Press, vol 100, p 89, 11 columns, I; p. 150, 8 columns, I, p. 316, 9\frac{3}{2} columns. I.
- LESSONS FROM GILPIN COUNTY PRACTICE. By G. E Collins Min. & Sci Press, vol. 101, p 366. 11½ columns.
- THE ALICE MINE: Colorado's Largest Ore Body By R L Herrick. M & M., vol 29, p. 294. 6 columns I.
- REPORT ON THE POVERTY GULCH MINE. By C. W. Henderson. M. & M., vol 31, p. 586, 5½ columns, I.; p. 694, 7 columns. I.
- GOLD ORE NEAR NEWCASTLE, COLO-RADO. By F Rickard. Min. & Sci. Press, vol 99, p. 503 1 column. I.
- THE SAN JUAN REGION, COLORADO. By T. T. Read. Min. & Sci. Press, vol. 97, p. 632, 8 columns, I.; p. 668, 10 columns. I.
- GOLD DEPOSITS OF SAN JUAN, COLO-RADO. By W. C. Prosser. M & M., vol. 31, p. 335. 5 columns. I.
- MINING IN THE SAN JUAN, COLORADO. By W. H. Storms. Min. & Sci. Press, vol. 101, p. 610, 5½ columns, I.; p. 737, 6½ columns, I.; p. 865, 3½ columns. I.
- THE CRESSON MINE, CRIPPLE CREEK, COLORADO. By R. L. Herrick. M. & M., vol. 31, p. 735. 11½ columns. I.

- PRIMARY GOLD IN A COLORADO GRAN-ITE. By J. B. Hastings. T. A. I. M. E., vol. 39, p 97. 6 pages I
- LA PLATA MOUNTAINS, COLOBADO. By R. H. Toll Mm. & Sci. Press, vol. 97, p. 741. 6½ columns. Map.
- TREASURE MOUNTAIN, COLORADO. By C. W Purington. Min & Sci. Press, vol 97, p. 23. 5½ columns. I.
- LAKE FORK EXTENSION OF THE SILVER-TON MINING AREA, COLORADO. By L. W. Woolsey. U S. G. S, Bull. 315, p. 26. 5 pages. 1906.
- Mining in Georgetown Quadrangle. By S. H. Ball. M. & M., vol. 30, p. 205. 9½ columns. Map.
- Hahns Peak, Colorado. E. & M. J., vol 86, p. 809. 2½ columns. I.
- GOLD PLACEE DEPOSITS NEAR LAY, ROUTT COUNTY, COLORADO. By H. S Gale. U. S G S., Bull. 340, p. 84. 13 pages. I. 1907.
- GYPSUM OF THE UNCOMPANGRE REGION, COLORADO. By C. E. Siebenthal. U. S. G. S., Bull 285, p. 401. 4 pages I. 1905.
- THE TAYLOR PEAK AND WHITEPINE IRON-ORE DEPOSITS, COLORADO. By E. C. Harder. U. S. G. S., Bull. 380, p. 188. 10½ pages. I. 1908.
- TAYLOR PEAK IRON DEPOSITS. By E. C. Harder. Mm. & Sci. Press, vol. 100, p. 615. 5 columns. I.
- OCCURRENCE OF LEAD ORE AT LEAD-VILLE. E. & M. J., vol 89, p. 263. 4 columns. I.
- THE LEADVILLE DOWNTOWN DISTRICT.

 Min. & Sci. Press, vol. 95, p. 58. 1

 column.
- LEADVILLE, COLORADO, ZINC DE-POSITS. By H. E. Burton. M. & M, vol. 31, p. 436. 2 columns.
- RECENT DEVELOPMENTS ON IRON HILL, LEADVILLE. By G. O. Orgall. E. & M. J., vol. 89, p 261. 16 columns. I.
- THE MONTEZUMA MINING DISTRICT, COLORADO. By E. A. Ritter. E. & M. J., vol. 85, p. 241. 9\frac{1}{2} columns. I.

- THE NIOLVARA LIMESTONE OF NORTH-EEN COLORADO AS A POSSIBLE SOURCE OF PORTLAND CEMENT MA-TERIAL. By G C. Martin. U S. G. S., Bull 380, p 314. 13 pages. I. 1908
- THE FLORENCE OIL FIELD, COLORADO. By C. W Washburne. U. S. G. S., Bull. 381, p. 517. 28 pages. I. 1908.
- THE DEVELOPMENT IN THE BOULDER OIL FIELD, COLORADO. By C. W. Washburne U S G S, Bull. 381, p. 514 2½ pages. 1908.
- GEOLOGY OF THE RANGEL OIL DISTRICT, COLORADO, WITH A SECTION ON THE WATER SUPPLY. By H. S. Gale. U. S. G. S, Bull. 350, 60 pages. I 1908.
- DESTRUCTION OF THE SALT-WORKS OF THE COLORADO DESERT BY THE SALTON SEA By W. P. Blake. T. A. I M. E., vol. 38, p. 848. 1 page.
- TUNGSTEN INDUSTRY OF BOULDER COUNTY, COLORADO, IN 1908. By R. D. George. E. & M. J., vol. 87, p. 1055 2 columns Map.
- TUNGSTEN IN SAN JUAN COUNTY, COLORADO. By W. C. Prosser. E. & M. J., vol 90, p. 320. 2 columns. I.
- OCCURRENCES OF VANADIUM NEAR TELLURIDE, COLORADO. By E. R. Zolniski. E. & M. J., vol. 85, p. 1152. 4 columns. I.
- CARNOTTTE IN RIO BLANCO COUNTY, COLORADO. By H. S. Gale. U. S. G. S., Bull. 315, p. 110. 8 pages I. 1906.
- CARNOTITE AND ASSOCIATED MINERALS IN WESTERN ROUTT COUNTY, COLORADO. By H. S. Gale. U. S. G. S., Bull. 340, p. 257. 6 pages. 1907

Connecticut

A GEOGRAPHIC DICTIONARY OF CON-NECTICUT. By H. Gannett. U. S. G. S., Bull. 117. 67 pages. 1894. THE OLD BRISTOL COPPER MINE, CON-NECTICUT By C S Richardson Min. Mag, vol 3, p. 251. 5 pages.

The Dakotas

- THE SENTINEL BUTTE LIGNITE FIELD,
 NORTH DAKOTA AND MONTANA By
 A. G. Leonard and C. D. Smith. U.
 S. G. S., Bull. 341, p 15. 21 pages.
 I. 1907.
- THE WASHBURN LIGHTE FIELD, NORTH DAKOTA. By C. D. Smith. U. S. G. S., Bull. 381, p. 19. 11 pages. I. 1908.
- THE FORT BERTHOLD INDIAN RESERVATION LIGNITE FIELD, NORTH DAKOTA. By C. D. Smith. U. S. G. S., Bull. 381, p. 30 10 pages. I. 1908.
- THE BOTTINEAU GAS FIELD, NORTH DAKOTA. By J G. Barry. E & M. J., vol. 87, p. 1089. 3 columns.
- THE BLACK HILLS OF SOUTH DAKOTA.

 By W. H. Storms. Min. & Sci.

 Press, vol. 101, p. 114, 5 columns,
 I.; p. 144, 7 columns, I; p. 264, 7

 columns, I.; p. 500, 6 columns; p. 571,
 6 columns; p. 669, 6 columns. I.
- DRY PLACERS OF THE BLACK HILLS.
 Min. & Sci Press, vol. 101, p. 571.
 14 columns.
- PLACERS OF THE BLACK HILLS, SOUTH DAKOTA. Min. & Sci. Press, vol. 101, p. 573. 2 columns.
- MICA DEPOSITS OF SOUTH DAKOTA. By D. B. Sterrett. U. S. G. S., Bull. 380, p. 382. 3 pages. 1908.
- MICA DEPOSITS IN SOUTH DAKOTA. By D. B. Sterrett Min. & Sci. Press, vol. 99, p. 826 4 columns. I.
- Tin, Tungsten, and Tantalum Deposits of South Dakota. By F. L. Hess. U. S. G. S., Bull. 380, p. 131. 32 pages. I. 1908.
- TUNGSTEN DEPOSITS OF SOUTH DA-KOTA. By F. L. Hess. U. S. G. S., Bull. 380, p. 131. 32 pages. I. 1908.

Tantalum Deposits of South Dakota. By F L. Hess. U. S. G S, Bull. 380, p 131. 32 pages. I. 1908.

Delaware

- GAZETTEER OF DELAWARE. By H. Gannett U.S G.S., Bull. 230. 15 pages. 1904
- THE EOCENE DEPOSITS OF THE MID-DLE ATLANTIC SLOPE IN DELAWARE, MARYLAND, AND VIRGINIA. By W. B. Clark U. S G. S., Bull. 141. 167 pages. I. 1896.

East Indies-Malaysia

- GOLD MINING INDUSTRY IN THE DUTCH EAST INDIES. By E. A. Winton. E. & M. J., vol. 88, p. 513. 4½ columns. Map
- OCCURRENCE OF AURIFEROUS AND STANNIFEROUS TOURMALINE IN SU-MATRA. By L. Hundeshagen. E. & M. J., vol. 87, p. 1003. ½ column.
- MINING IN THE MALAY STATES. By E. S. Marks. Min. & Sci. Press, vol 98, p. 31. 10½ columns. I.
- TIN MINING IN ULU SELANGOR, FED-ERATED MALAY STATES. By E. Nightingale. T. I M & M., vol. 17, p. 159. 12½ pages. I.
- MINING LODE TIN IN MALAYA. E. & M J., vol. 86, p. 371. 4 columns.

Egypt

Gold Mining in Egypt. By C. S. Herzig Min. & Sci. Press, vol. 95, p. 212 42 columns. I.

England

- HOLYWELL-HALKYN TUNNEL AND MINES, HOLYWELL, NORTH WALES. By J. P. Jones. T. I. M. E., vol. 36, p. 197. 5 pages. I.
- MINING IN NEW SOUTH WALES. Min. & Sci. Press, vol. 95, p. 182. 7 column.
- THE 1906 BOOM IN CORNWALL. By W. Thomas. Min. Mag, London, vol. 1, p. 233. 4 columns.

- THE CHINA-CLAY INDUSTRY OF CORN-WALL. By J. H. Collins. Min. Mag, vol. 4, p. 449. 11½ columns. I.
- THE KENT COALFIELD IN ENGLAND. E. & M. J., vol. 87, p. 910. 1½ columns.
- THE WEMYSS COAL-FIELD, ENGLAND.

 By J. Gemmell T. I. M E., vol. 36,
 p 555 20 pages.
- Scottish "Eenie" Coal. By C. T. Clough. T. I. M. E., vol. 37, p. 2. 10 pages. I.
- An English Gold Mine. E. & M. J., vol. 86, p. 98. 2 column.
- THE BRITISH GOLD FIELDS, ENG-LAND. Min. Mag, vol 2, p. 282, 3 pages; p. 376, 2 pages.
- THE HEMATITE MINES OF CUMBER-LAND, ENGLAND. By L. W. Mayer. E. & M J, vol 86, p. 358. 18\frac{1}{2} columns. I.
- THE GREENSIDE LEAD MINES, CUMBERLAND, ENGLAND By E. T. Borlase E. & M J., vol 85, p. 297. 10 columns. I.
- OIL-SHALE AT PUMPHERSTON, SCOT-LAND. By W Caldwell. T I. M. E., vol 36, p 581. 9½ pages. I.
- THE PUMPHERSTON, SEA FIELD, AND DEANS WORKS OF THE PUMPHERSTON OIL COMPANY. T. I. M. E, vol. 36, p. 602. 8 pages.
- SLATE MINING IN WALES AND CAUSE OF ITS DECLINE. E. & M. J., vol. 85, p. 145. 7½ columns. I.
- THE RED RIVER, CORNWALL, ENG-LAND. By E. Walker. Min. & Sci. Press, vol. 97, p. 849. 2 columns.

Florida

- NOTES ON THE CLAYS OF FLORIDA. By G. C. Matson. U. S. G. S., Bull. 380, p. 346. 10 pages. 1908.
- FULLER'S EARTH, KAOLIN AND PEAT IN FLORIDA. By E. H. Sellards. E. & M. J., vol. 85, p. 1187. 1 column.

- DEVELOPMENTS IN THE FLORIDA PHOS-PHATE INDUSTRY. By C. G Memminger. E. & M. J., vol. 89, p. 184. 3 columns.
- PRODUCTION OF PHOSPHATE ROCK IN FLORIDA DURING 1908. By E. H. Sellards. E. & M. J., vol. 88, p. 129. 13 columns.
- PHOSPHATE MINING IN FLORIDA E. & M. J., vol. 85, p. 597. 1 column.

France

- THE MINES OF FRANCE. Min. Mag., vol. 4, p. 237. 6 pages.
- GOLD MINING IN FRANCE. By J. A. Rickard. Min Mag., London, vol. 1, p. 283 4 columns. I
- GOLD IN FRANCE. P. C. M. & M. Soc. S. A., vol 7, p. 315. ½ column.
- THE GREATEST GOLD MINE OF FRANCE. By T. T. Read. Min. Mag, vol 4, p. 209. 7 columns. I.
- THE THREE PRODUCING GOLD MINES OF FRANCE. By E. Walch. E. & M. J., vol. 87, p. 792. 6 columns I.

Georgia

- A COMMERCIAL OCCURRENCE OF BARITE NEAR CARTERSVILLE, GEORGIA. By C. W. Hayes and W. C. Pholen. U. S. G. S., Bull 340, p. 458. 4½ pages. I. 1907.
- A New Discovery of Bauxite in Georgia. By Otto Veatch. E. & M. J., vol. 85, p. 688. 11 columns.
- Kaolins and Fire Clays of Central Georgia. By O. Veatch. U. S. G. S., Bull. 315, p. 303. 12 pages. I. 1906.
- CANTON COPPER MINE, CHEROKEE COUNTY, GEORGIA By J. Derby. Min. Mag., vol 5, p. 395. 2½ pages.
- Fuller's Earth of Southwestern Georgia and Western Florida. By T. W. Vaughan. U. S. G. S., Mineral Resources, 1901. 13 pages.
- Gold Deposits of Georgia. By E. K. Soper. Min. & Sci. Press, vol. 100, p. 923. 3‡ columns.

- MOORE'S GOLD MINES, DAHLONEGA, GEORGIA. Min. Mag., vol. 2, p. 24. 3 pages.
- THE GOLD PLACERS OF LUMPKIN COUNTY, GEORGIA. Min Mag., vol. 10, p. 457. 20 pages.
- GRAPHITE DEPOSITS NEAR CARTERS-VILLE, GEORGIA. By C W Hayes and W. C Pholen. U S. G S., Bull 340, p 463 2½ pages. 1907.
- IRON ORES NEAR ELLIJAY, GEORGIA By W C. Pholen. U S G S., Bull 340, p. 330. 5 pages 1907.
- REVIEW OF FOSSIL IRON ORE DE-POSITS OF GEORGIA. By S N. Ball. E. & M. J., vol 88, p 200. 13½ columns. I
- GEORGIA BROWN IRON-ORE WASH-ERIES. By E F. McCrossin. M. & M, vol 31, p 294. 2³ columns I.

Germany

- UPPER SILICIA COAL MINES. By F. Hass. M. & M., vol. 30, p 471, 5½ columns.
- GERMAN DIATOMACEOUS EARTH. E. & M. J., vol. 87, p. 938. Recolumn.
- THE LORRAINE DEPOSITS OF COLITIC IRON ORE, GERMANY By Tony Callot. E & M. J., vol. 87, p. 1221. 16 columns. I.
- THE ILSEDE HUTTE IRON-MINES AT PEINE, GERMANY. By L. W. Mayer. T. A. I. M. E., vol. 39, p 351. 6½ pages I.
- LEAD MINING AT MECHERNICH, PRUSSIA. By L. W. Mayer. E & M J, vol. 86, p. 169. 11½ columns. I.
- Silver-Lead Mining in Freiberg, Germany. By W. G Brown. E & M. J., vol. 87, p. 987. 5½ columns
- GEYSERITE: A Variety of Opal, in Germany. E. & M. J., vol. 90, p. 820 1 column. I.

Idaho

Notes on Geology of Snow Storm Mine, Idaho. By G. Huston. E. & M. J., vol. 90, p. 1109. 3 columns.

- SNOWSTORM COPPER DEPOSIT, IDAHO.

 Min. & Sci. Press, vol 97, p 701.

 2²/₃ columns I.
- Notes on the Fort Hall Mining District, Idaho By F. B. Weeks and V. C. Heikes U. S. G. S, Bull. 340, p. 175 10 pages. I. 1907.
- THE WHITE KNOB COPPER-DEPOSITS, MACKAY, IDAHO By J F Kemp and C G Gunther. T. A I. M. E, vol 38, p 269. 29 pages I.
- THE NORTH SIDE OF THE COUR D'ALENE DISTRICT. By H. S. Auerbach. E & M J, vol. 86, p. 65. 17 columns I
- ORE BODIES OF THE NORTH SIDE OF THE COUR D'ALENE DISTRICT E. & M. J., vol. 86, p. 67. 4 columns. I.
- ATLANTA GOLD DISTRICT, IDAHO. By R. N. Bell. E. & M. J, vol. 86, p 176 4 columns. I.
- Boise Basin, Idaho By W. A. Scott. Min & Sci Press, vol 101, p. 76. 6 columns. I.
- THE ORE BODIES OF THE BUNKER HILL AND SULLIVAN MINE. MIN. & Sci. Press, vol. 97, p. 775. 6 columns I.
- AN OCCURRENCE OF MONAZITE IN NORTHERN IDAHO By F. C. Schrader. U. S G S, Bull. 430, p. 184. 7 pages. I. 1909.
- TUNGSTEN ORE DEPOSITS OF THE COUR D'ALENE. By H. S. Auerbach. E. & M. J., vol 86, p. 1146. 6½ columns. I.
- See also Miscellaneous Production.

Illinois

- CONCRETE MATERIALS PRODUCED IN THE CHICAGO DISTRICT. By E. F. Burchard. U. S G. S, Bull. 340, p. 383. 28 pages. I. 1907.
- STUDIES OF ILLINOIS COALS. By H. F. Bain T. A. I. M. E., vol. 40, p. 3. 72 pages. I.
- BIBLIOGRAPHY OF ILLINOIS COAL AND ITS UTILIZATION. J. W. Soc. E., vol. 14, p. 326. 21 pages.

- ILLINOIS COAL STATISTICS. M & M., vol. 31, p. 357. ½ column
- THE COAL MINING INDUSTRY IN ILLI-NOIS DURING 1908 E. & M J, vol. 88, p. 77 4 columns.
- THE KINGSTON COAL MINES, PEORIA COUNTY, ILLINOIS. By C. S. Richardson. Min. Mag., vol. 4, p. 379. 7½ pages; vol 5, p. 1, 24 pages.
- THE ILLINOIS COAL FIELD. By A. Bement. J. W. Soc. E., vol 14. p. 305. 70 pages. I.
- THE COAL-RESOURCES OF ILLINOIS. T. A. I. M. E., vol. 40, p. 7. 10 pages. I.
- THE ILLINOIS COAL FIELD. By A. Bement. M & M., vol. 30, p. 709
- THE ILLINOIS COAL FIELD. By H. H. Stock. M. & M, vol 31, p. 54 6 columns Map.
- COAL INVESTIGATION IN THE SALINE-GALLATIN FIELD, ILLINOIS, AND THE ADJOINING AREA. By F W De Wolf. U. S. G. S., Bull 316, p. 116. 20 pages. I. 1906.
- THE OOLITIC LIMESTONE INDUSTRY AT BEDFORD AND BLOOMINGTON, ILLI-NOIS. By J. A. Udden. U. S. G. S., Bull. 430, p. 335. 12 pages. 1909.
- Petroleum Fields of Illinois. By H. F. Bain. Min. & Sci. Press, vol. 99, p. 153. 42 columns. I.
- PUMPING AND SHIPPING OIL IN EAST-ERN ILLINOIS. By R. S Blatchley. Min. & Sci. Press, vol. 99, p 678. 6 columns. I

India

- India's Mineral Production. E. & M. J., vol. 85, p. 1050. 2½ columns
- PETROLEUM IN BURMA. By E. A. Wakefield. Min. & Sci. Press, vol. 99, p. 500. 14 columns.
- A MANGANESE DEPOSIT IN SOUTHERN INDIA. By R O. Ahles. T. I. M. & M., vol. 18, p. 133. 20 pages. I.

- MANGANESE DEPOSITS IN SOUTHERN INDIA E. & M J, vol 87, p 955. 2§ columns
- RUBY MINES OF THE MOGOR VALLEY, BURMA. Min. & Sci. Press, vol 99, p. 231. 11 columns.

Indiana

- STRATIGRAPHY AND COAL BEDS OF THE INDIANA COAL FIELD. By G. H. Ashley U. S. G S., Bull. 381, p. 9 10 pages. 1908
- MINING COAL IN SOUTHERN INDIANA.

 By F W. Parsons E & M J., vol.

 90, p 869. 11 columns. I.
- NATURAL GAS FIELD OF INDIANA. By A. J. Phinney. U. S. G. S., 16th Ann Rept., pt. 1, pp 579-742. 1889-90 I.
- GLASS-SAND INDUSTRY OF INDIANA, KENTUCKY AND OHIO By E. F. Burchard. U. S. G. S., Bull 315, p. 361. 16 pages. 1906.
- PEAT BEDS IN INDIANA. E. & M J., vol. 88, p. 789. 2 column.
- THE TRENTON LIMESTONE AS A SOURCE OF PETROLEUM AND INFLAMMABLE GAS IN OHIO AND INDIANA. By E. Orton. U. S. G. S., 8th Ann. Rept. pt. 2, pp. 475–662. 1886–87. I.

Iowa

- THE GEOLOGY, MINING AND PREPARATION OF BARITE IN WASHINGTON COUNTY, MISSOURI. By A. A. Steel. T. A. I. M. E., vol 40, p. 711. 32½ pages. I.
- CLAY RESOURCES OF THE ST. LOUIS DISTRICT, MISSOURI. By N. M. Fenneman. U. S. G. S., Bull. 315, p. 315. 6½ pages. I. 1906.
- COALFIELDS OF IOWA AND MISSOURI. By H. Hinds. M. & M., vol. 31, p. 80. 4½ columns. I. Map.
- LEAD AND ZINC MINING IN IOWA. E. & M. J., vol. 86, p. 805. 1 column.

Jamaica

COPPER IN JAMAICA. Min. & Sci. Press, vol. 99, p. 299. ½ column.

Japan

- Mining Industry in Japan. By T. Haga. Min. & Sci Press, vol. 101, p. 306 1½ columns.
- THE MINERAL RESOURCES OF KOREA. By H. R. Robbins T A I. M E, vol 39, p. 260. 14 pages I.
- Notes on the Takasima Coal Mines, Nagasaki, Japan By E. W. Nardin. T. Au I M E, vol 8, pt. 1, p. 81. 6 pages I
- THE KAPSON MINES, KOREA Min. & Sci Press, vol. 99, p. 666. 2½ columns
- THE KOSAN MINE, KORBA. By A. D. Weigall Min & Sci. Press, vol. 97, p. 878 2½ columns
- THE KOSAKA COPPER MINE OF JAPAN Min & Sci Press, vol 101, p. 503. 1 column.
- Gold Mining in Korea, 1910. By J. D. Hubbard. Min & Sci Press, vol 101, p. 236. 5 columns. I.
- GOLD DEPOSITS IN JAPAN. Min. & Sci Press, vol 101, p. 842. 2½ columns.
- THE PLACER DEPOSITS OF KOREA. T. A. I. M. E., vol. 39, p. 266. 2 pages. I.

Kansas

- A GAZETTEER OF KANSAS By H. Gannett. U. S. G. S., Bull. 154. 246 pages. I. 1898.
- ECONOMIC GEOLOGY OF THE IOLA QUADRANGLE, KANSAS. By G. I. Adams, E. Haworth, and W. R. Crane. U S. G. S., Bull. 238. 83 pages. I. 1904.
- ECONOMIC GEOLOGY OF THE INDE-PENDENCE QUADRANGLE, KANSAS. By F. C. Schrader and E. Haworth. U. S. G. S., Bull. 296. 74 pages. I. 1906.

- SOUTHERN KANSAS COAL DISTRICT.

 By L. L. Wittich M. & M, vol. 31,
 p. 668 7\frac{1}{3} columns. I.
- THE KANSAS STATE COAL MINE BY C. M. Young E. & M J., vol 89, p. 1159. 9½ columns. I

Kentucky

- ECONOMIC GEOLOGY OF THE KENOVA QUADRANGLE (KENTUCKY-OHIO-WEST-VIRGINIA). By W C. Pholen. U S. G. S., Bull 349. 158 pages I. 1908.
- CLAY RESOURCES OF NORTHEASTERN KENTUCKY. By W. C. Pholen U. S. G. S, Bull. 285, p. 411. 6 pages. 1905.
- CLAYS OF WESTERN KENTUCKY AND TENNESSEE. By A. F. Crider. U. S. G. S., Bull. 285, p. 417. 11 pages. I. 1905
- COAL RESOURCES OF THE KENOVA QUADRANGLE, KENTUCKY By W. C. Pholen. U. S. G. S., Bull 285, p. 259. 10 pages. I. 1905.
- THE ELKHORN COAL FIELD, KENTUCKY. By R W. Stone U S G.S., Bull 316, p. 42. 15 pages. I. 1906.
- THE MIDDLESBORO COALFIELD IN KENTUCKY By J. Howard E & M. J., vol. 88, p 314 8 columns I.
- GEOLOGY AND MINERAL RESOURCES OF THE CUMBERLAND GAP COAL FIELD, KENTUCKY. By G. H. Ashley and L. C Glenn. U S G. S., Professional Paper 49. 239 pages. I. 1906.
- COAL RESOURCES OF THE RUSSELL FORK BASIN (KENTUCKY-VIRGINIA). By R. W. Stone. U. S. G. S, Bull. 348. 127 pages. I. 1908.
- THE MIDDLESBORO COAL FIELD, KENTUCKY. By J. Howard. E. & M. J., vol 85, p. 166. 10 columns. I.
- MINING COAL IN BIG STONE GAP FIELD, KENTUCKY. By J. P. Shippen. E. & M. J., vol. 85, p. 1287. 11 columns. I.

- Kentucky Fluorspar and Its Value to the Iron and Steel Industries. By E J. Fohs T. A I. M. E, vol 40, p 261. 13 pages
- OOLITIC LIMESTONE AT BOWLING GREEN AND OTHER PLACES IN KEN-TUCKY. By J. H. Gardner. U. S. G S., Bull. 430, p. 373 7 pages. 1909.
- Peridotite of Elliott County, Kentucky. By J S. Diller U. S. G. S, Bull 38 31 pages. I. 1887.
- See also Miscellaneous Production.

Louisiana

OIL AND GAS IN LOUISIANA, WITH A BRIEF SUMMARY OF THEIR OCCUR-RENCE IN ADJACENT STATES. By G. D. Harris. U. S. G. S., Bull. 429. 192 pages. I. 1910.

Maine

- CLAYS OF THE PENOBSCOT BAY REGION, MAINE. By E S. Bastin. U. S. G. S., Bull. 285, p. 428. 4 pages. 1905.
- FELDSPAR AND QUARTZ DEPOSITS OF MAINE. By E. S. Bastin. U. S. G. S., Bull. 315, p 383. 10½ pages. 1906
- Graphite in Maine By G. O. Smith. U. S. G S., Bull. 285, p. 480. 4 pages. 1905.
- The Lime Industry of Knox County, Maine. By E. S. Bastin. U. S. G. S., Bull. 285, p. 393. 8 pages. I. 1905.
- Some Molybdenum Deposits of Maine, Utah, and California. By F. L. Hess. U. S. G. S, Bull. 340, p. 231. 10 pages. 1907.
- PEAT DEPOSITS OF MAINE. By E. S. Bastin and C. A. Davis. U. S. G. S., Bull. 376. 127 pages. I, 1909.
- NOTE ON A VARIETY OF MAINE SLATE. By T. N. Dale. U. S. G. S., Bull. 285, p 449. 11 pages. 1905.

Maryland

GAZETTEER OF MARYLAND. By H. Gannett. U. S G S, Bull 231. 84 pages. 1904

See also Miscellaneous Production.

Massachusetts

- A GEOGRAPHIC DICTIONARY OF MASSA-CHUSETTS. By H. Gannett. U S. G. S., Bull. 116 126 pages. 1894.
- CLAYS OF CAPE COD, MASSACHUSETTS. By M. L. Fuller. U. S. G. S., Bull 285 p. 432. 9½ pages 1905.
- BRICK CLAYS NEAR CLINTON, MASSA-CHUSETTS. By W C. Alden. U. S. G. S., Bull. 430, p. 402. 3 pages. 1909.
- THE WILLISTON LEAD AND COPPER MINE, NORTHAMPTON DISTRICT, MASSACHUSETTS. By C. S. Richardson. Min. Mag., vol. 2, p. 395, 2 pages; p. 634, 2 pages.
- CHIEF COMMERCIAL GRANTIES OF MASSACHUSETTS, NEW HAMPSHIRE AND RHODE ISLAND. By T. N. Dale. U. S. G. S., Bull 354. 228 pages. I. 1908.
- GEOLOGY OF ROAD-BUILDING STONES OF MASSACHUSETTS, WITH SOME CONSIDERATION OF SIMILAR MA-TERIALS FROM OTHER PARTS OF THE UNITED STATES. By N. S. Shaler. U. S. G. S., 16th Ann. Rept., pt. 2, pp. 277–341. 1894–95. I.

Mexico

- MEXICO, PROGRESS IN 1907. By C. A. Bohn. Min. & Sci. Press, vol. 96, p. 43. 8 columns. I.
- MINERAL RESOURCES OF THE STATE OF GUERRERO, MEXICO. By W. Nevin. E. & M. J., vol. 90, p. 672. 9 columns. I.
- MORE ABOUT MEXICO. By T F. Van Wagenen. Min. Mag., vol. 4, p. 43. 8 columns. I.
- SUMMER TRAVEL IN MEXICO By J. A MacDonald. Min. & Sci. Press, vol. 101, p. 340. 8 columns.

- CHANGING CONDITIONS IN MEXICO By H. A. Mcgraw. E & M. J, vol. 88, p. 657. 4½ columns.
- IMPORTANT STATES OF CENTRAL AND SOUTHERN MEXICO By H. A. Horsfall. E & M. J, vol. 88, p. 665. 4 columns I. Map.
- GENERAL CONDITIONS IN MEXICO. By T. F Van Wagenen. Min. Mag, London, vol. 3, p 440. 12 columns I.
- ON HORSEBACK IN WESTERN CHI-HUAHUA By M. R. Lamb. E & M J, vol. 86, p. 159. 17½ columns. I.
- PRESENT CONDITION OF MINING IN MEXICO. By F W. Smith. E. & M. J., vol. 86, p. 655. 4 columns.
- MINING IN MEXICO, PAST AND PRES-ENT. By E. A. H. Tays E. & M. J. vol. 86, p. 665. 8 columns. I.
- W. A. Prichard Min Mag, London, vol. 1, p. 205. 13½ columns. I.
- COAL MINES OF MEXICO By M. Schwarz. M. & M, vol. 29, p. 33. 3 columns. L
- THE COAL INDUSTRY IN MEXICO. By E. Ludlow. E. & M. J., vol. 88, p. 10. ½ column. I.
- COAL IN COAHUILA, MEXICO. By E. Ordoñez. Mm & Sci. Press, vol. 96, p. 363. 3½ columns. Map.
- THE CARBONIFEROUS DEPOSITS OF NORTHERN COAHUILA. By J. G. Aguilera. E & M. J., vol. 88, p. 730. 9½ columns.
- COAL AND IRON EXPLORATIONS IN OAXACA, MEXICO. By J. L. W. Birkinbine. E. & M. J., vol. 90, p. 668. 10½ columns. I.
- GEOLOGY OF THE OAXACA COAL AND IRON DEPOSITS. E. & M. J., vol. 90, p. 668. 10 columns. I.
- THE CANANEA CONSOLIDATED COPPER COMPANY IN 1908. By L. D. Ricketts. E. & M. J., vol. 87, p. 701. 13 columns.

- REVIVAL IN URES, HERMOSILLO AND SAHUARIPA DISTRICTS, SONORA By W. L. Wilson. E. & M. J., vol 90, p 661 3 columns
- SAN ANTONIO COPPER DISTRICT, SONORA, MEXICO. E & M. J., vol. 90, p 1301 3½ columns. D.
- ORE DEPOSITS OF CANAMEA MINING DISTRICT, MEXICO. By S F. Emmons E & M. J, vol. 90, p. 402. 5 columns. Map.
- LAS PILARES MINE, NACOZARI, MEXICO. By C De Kalb. Min. & Sci Press, vol. 100, p. 887. 6½ columns I.
- ORE DEPOSITS OF THE NACOZARI DISTRICT, MEXICO. E & M J, vol. 86, p. 658. 1½ columns.
- NACOZARI MINING DISTRICT, SONORA, MEXICO By B. E. Russell. E. & M J., vol. 86, p 657. 16 columns. I.
- THE MAGISTRAL COPPER DISTRICT, MEXICO. By P. A. Babb. E. & M. J, vol 88, p 1215. 4½ columns. I.
- COPPER-GOLD SMELTING AT MAGISTRAL. By R. Linton. Min. & Sci. Press, vol. 97, p. 843. 6½ columns. I.
- THE ARTEAGA MINING DISTRICT, CHI-HUAHUA, MEXICO. E. & M. J., vol 89, p. 618 3 columns I
- ARTEAGA DISTRICT, CHIRUAHUA, MEXICO. By W. B. Winston. Min. & Sci. Press, vol. 98, p. 829 32 columns. I.
- THE CALABACILIAS MINE, CHIHUAHUA. By R. T. Sill. E. & M. J., vol 90, p. 359. 1½ columns. I.
- MINING OPERATIONS IN THE STATE OF CHIHUAHUA, MEXICO. By W. H. Seamon. E. & M. J, vol 90, p. 654. 61 columns.
- THE ARTEAGA DISTRICT, CHIMUAHUA. By L. T. Pockman. E & M. J., vol. 90, p. 656. 3½ columns. I
- Yoquivo Mine and Mill, Western Chihuahua. By W. H. Seamon. E. & M. J., vol. 90, p. 811. 4 columns. I.
- Pachuca District, Mexico. By J. L. Mennell. Min. & Sci. Press, vol. 100, p. 455. 3 columns. I.

- Santa Gertrude's and La Blanca Mines, Pachuca, Mexico E & M J, vol 88, p 670. 1 column I.
- THE SANTA GERTRUDE'S MINE, PA-CHUCA, MEXICO. E. & M. J., vol 89, p. 214. 9 columns. I.
- Some Features of Mining at Pachuca, Mexico E & M J., vol 86, p. 1051. 4½ columns.
- SAN RAFAEL Y ANEXAS MINING COM-PANY, PACHUCA, MEXICO. By E. Girault. E. & M. J., vol. 90, p. 643. 9 columns. I.
- Las Pilares Mine, Sonora, Mexico. By E M Robb M. & M, vol 31, p. 106. 11½ columns I
- OCCURRENCE OF GOLD AND SILVER ORES AT THE LAS PILARES MINE. M. & M., vol. 106 2½ columns I.
- Minas Pedrazzini Operations Near Arizpe, Sonora, Mexico By E L Dufourcq. E. & M. J, vol. 90, p. 1105. 5½ columns.
- MINING IN OAXACA. By E. M. Lawton. Min. & Sci. Press, vol. 99, p. 232. 3½ columns. I.
- IRON EXPLORATION IN OAKACA, MEXICO. E. & M. J, vol. 90, p. 668. 10 columns. I.
- THE ESPERANZA MINE, EL ORO, MEXICO. By W E. Hindry. Min Mag., London, vol. 1, p. 131 101 columns I.
- ORE OF THE ESPERANZA MINE, MEXICO. Min. & Sci. Press, vol. 99, p 847 2½ columns.
- MINING IN THE ALAMOS AND ARTEAGA
 DISTRICTS. By G. M Bloomer. E
 & M J, vol. 87, p. 699 6 columns. I.
- ALAMOS-PROMONITOS DISTRICT, MEXrco. By T. P. Brinegar. Min. & Sci. Press, vol. 100, p. 553 3 columns I.
- MINING AND SMELTING AT ACHOTLA MINE, GUERRERO, MEXICO By W. B. Devereux, Jr. E. & M J, vol. 90, p. 663.
- EL RAYO GOLD MINE, NEAR SANTA BARBARA, MEXICO. By C. T. Rice.

- E & M J., vol 86, p. 78. 7 columns I.
- SAN JOSÉ DE GRACIA, A GREAT MEX-ICAN GOLD CAMP. By E. A. H. Tays E & M J, vol 88, p 640. 16 columns. I.
- MINING IN THE SETENTRION, MEXICO. By M R. Lamb. Mm & Sci. Press, vol. 97, p 782. 5 columns. I.
- THE LLUVIA DE ORO MINE. By E. A. H. Tays. Min & Sci. Press, vol 100, p. 59. 3 columns. I.
- Chico, Mexico Min. & Sci. Press, vol 101, p. 473. 4 columns.
- TOPOGRAPHICAL AND OTHER NOTES ON THE CHOIX-GUADALUPE Y CALVO MINING DISTRICT, MEXICO. By A. W Warwick. Min & Sci. Press, vol 95, p. 686. 6 columns. I
- MINES OF ZOMELAHUACAN, VERACRUZ, MEXICO. By M. Fishback. E & M J, vol. 90, p. 1017. 6½ columns. I.
- CONDITIONS AT THE PALMILLA MINE, PARRAL, MEXICO. By F. W. Smith E & M J., vol. 90, p. 259. 111 columns. I.
- HINDS CONSOLIDATED MINES, MEXICO By S F Shaw. Min. & Sci. Press, vol 97, p. 598. 3 columns I.
- CALABACILLAS GOLD MINE, MEXICO. By C W. Geddes Min & Sci Press, vol 98, p. 689. 2½ columns. I
- THE GRANADENA MINES, MEXICO By S. F. Shaw. Min & Sci. Press, vol 97, p. 396. 5½ columns. I.
- Jalisco and Cohina, Mexico By W. A. Scott. Min. & Sci. Press, vol 98, p. 254. 3 columns. I.
- THE MINES OF NORTHWESTERN ALTAR, SONORA, MEXICO. By G W. Maynard. E & M. J., vol. 86, p. 71. 5½ columns I.
- THE ALTAR GOLD PLACER FIELDS OF SONORA, MEXICO. E. & M. J., vol. 90, p 651. 6\frac{2}{3} columns I.
- DRY PLACERS IN NORTHERN SONORA, MEXICO. By F. J. H. Merrill. Min. & Sci. Press, vol. 97, p. 360. 2² columns. I.

- MINING CEMENT GRAVEL AT ALTAR, MEXICO. By A Coll M. & M., vol. 31, p. 229. 4 columns. I.
- THE GRAPHITE MINES OF SANTA MARIA, MEXICO By J. C. Mills. M. & M., vol 29, p 98. 22 columns. I
- IRON RESOURCES OF THE REPUBLIC OF MEXICO. By E Ordonez. E & M J., vol. 90, p. 665 63 columns.
- EXPLORATION OF CEBTAIN IRON-ORE AND COAL DEPOSITS IN THE STATE OF OAXACA, MEXICO. By J L W. Birkinbine T. A I M. E., vol 41, p. 166. 23 pages. I
- THE CABRILLAS LEAD MINES OF COAHUILA, MEXICO By S J. Lewis. E. & M. J., vol. 89, p 1071 8 columns. I.
- THE GRANADENA MINES, MEXICO. By S. F. Shaw. Min. & Sci. Press, vol 97, p. 396. 5½ columns. I.
- MINING AND TRANSPORTATION AT SANTA EULALIA By C. T. Rice. E & M. J., vol. 86, p. 33 9½ columns. I.
- Ores and Mines of Santa Eulalia, Mexico. By C. T. Rice. E. & M J, vol. 85, p. 1283. 9 columns. I.
- THE ORE DEPOSITS OF SANTA EULALIA, MEXICO. By C. T. Rice E. & M. J., vol. 85, p. 1229. 10 columns. I.
- THE CUCHILLO PARADO DISTRICT.

 By R. H. Burrows. Min & Sci.

 Press, vol. 95, p. 408 1½ columns. I.
- Genesis and Classification of Mexican Onyx. By E. M. Lawton. Min. & Sci. Press, vol 100, p. 791. 12 columns.
- MEXICAN OILFIELDS. E. & M. J., vol. 87, p. 1233. 1 column.
- OIL DEVELOPMENTS IN MEXICO. E. & M. J., vol. 88, p. 660. 17 columns.
- THE OIL FIELDS OF MEXICO. By H. S. Denny. Min. Mag., London, vol. 3, p. 36. 8 columns. Map.

- OIL IN MEXICO. By J. L. Mennell. Min. Mag, London, vol. 2, p. 448. 5 columns. Maps.
- Oil in Mexico. By A R Skertchly. Min. Mag., London, vol 3, p. 283. 6 columns. I.
- OIL IN THE STATE OF VERA CRUZ, MEXICO. By E. Ordonez. Min. & Sci Press, vol 95, p. 247. 3\frac{3}{2} columns I
- DULCES NOMBRES QUICKSILVER DE-POSITS, MEXICO. By P. A. Babb. E & M. J., vol. 88, p. 684. 7½ columns. I.
- THE SALINE DEPOSITS OF CARMEN ISLANDS. By E. H. Cook. E & M. J., vol 85, p. 545. 3½ columns. I.
- THE SILVER MINES OF MEXICO. By A. F. J. Bordeaux. T. A I. M E., vol. 39, p. 357. 11½ pages.
- THE MINERAL RESOURCES OF SONORA.

 By F. J. H Merrill Mm. & Sci.

 Press, vol 96, p. 33. 14 columns.

 I Map.
- SAN JAVIER, AN OLD SILVER DISTRICT OF SONORA. By C. N. Nelson. E. & M. J., vol. 90, p 660. 4 columns. Map
- Las Chispas Mines, Sonora, Mexico. By B. E. Russell. E. & M. J., vol. 86, p. 1006. 6 columns. I.
- EL TIGRE MINE, MONTEZUMA DISTRICT, SONORA, MEXICO. By R. L. Herrick. M. & M., vol. 29, p. 483. 10 columns. I.
- Ores of the El Tigre Mine, Sonora, Mexico. M. & M., vol. 29, p. 486. ½ column.
- THE PROMONTORIO SILVER-MINE, DURANGO, MEXICO. By F. C. Lincoln. T. A. I. M. E., vol. 38, p. 734. 16 pages. I.
- REMINISCENCES OF MINING IN DU-BANGO. By W. D. Beverly. E. & M. J., vol. 88, p. 635. 14 columns. I.
- A TRIP THROUGH NORTHERN DU-RANGO. By C. N. Nelson. E. & M. J, vol. 87, p. 697. 41 columns. I.

- OLD MINING CAMP OF PAZOS, GUANA-JUATO, MEXICO. By H. A. McGraw. E & M J, vol 89, p. 961. 61 columns I.
- LORETO MINE AND THE PINGUICO DISTRICT, GUANAJUATO, MEXICO By C. W. Botsford E & M. J., vol. 88, p. 650. 2½ columns. I
- THE ZACATECAS DISTRICT AND ITS RELATION TO GUANAJUATO AND OTHER CAMPS. By C. W. Botsford. E. & M. J., vol. 87, p. 1227. 4 columns I.
- Notes on Guanajuato. By T. A. Rickard Min. & Sci Press, vol 95, p. 83 2½ columns. I.
- OPERATIONS OF GUANAJUATO DE-VELOPMENT COMPANY. E. & M. J., Vol. 88, p 651. 10 columns. I
- THE WORKING MINES OF GUANA-JUATO By C T. Rice E. & M. J., vol. 86, p. 806. 8 columns. I.
- HISTORY OF LA LUZ CAMP, GUANA-JUATO, MEXICO. E. & M. J., vol. 88, p. 646. $\frac{2}{3}$ column.
- THE GUANAJUATO MINING DISTRICT, MEXICO. E. & M. J., vol. 90,p. 1310. 6 columns. I.
- GUANAJUATO, THE GREAT SILVER CAMP OF MEXICO. By C. T. Rice. E. & M. J., vol. 86, p. 669. 9\frac{3}{2} columns. I.
- MINES OF AJUCHITLAN, QUERÉTARO, MEXICO. By S. J. Lewis. Min & Sci. Press, vol. 100, p. 211. 83 columns. I.
- THE MINES OF EL DOCTOR, MEXICO.

 By T. D. Murphy. Min. & Sci.

 Press, vol. 95, p. 241. 8½ columns I.
- THE SILVER-LEAD MINES OF SANTA BARBARA, MEXICO. By C. T. Rice. E. & M J., vol. 86, p. 464. 12 columns. I.
- ORE OF THE SANTA BARBARA DISTRICT, MEXICO. E. & M. J., vol. 86, p. 208. 2 columns.
- Los Lamentos Mine, Chihuahua. E. & M. J., vol. 87, p. 489. 1 column.

- RECENT MINING DEVELOPMENTS IN CHIHUAHUA By A P. Rogers E. & M. J, vol. 88, p. 681. 6½ columns. I.
- STORIES OF THE BATOPILAS MINES, CHIHUAHUA, MEXICO. By M R. Lamb. E. & M. J., vol. 85, p. 689. 4½ columns I.
- Santa Barbara Mine, Chihuahua, Mexico. M. & M., vol 29, p. 369. 3 columns. I.
- NATIVE SILVER IN SOUTHWESTERN CHIRUAHUA, MEXICO. By W. M. Brodie. E & M. J., vol. 89, p. 664. 5½ columns. I
- TRAVELING IN WESTERN CHIHUAHUA, MEXICO By F. H. Morley. E & M. J, vol. 87, p. 706. 8½ columns.
- MINING IN NORTHERN SINALOA, MEXICO. By E. A. H. Tays. Min. & Sci. Press, vol. 99, p. 120. 32 columns. Map.
- The Antigua of Real de Sivirioa, Sinaloa. By E. A. H Tays. E. & M. J, vol. 90, p. 1155. 5½ columns I.
- THE SILVER-MINES OF MEXICO: Discussion of Paper of A. F. J Bordeaux, vol 39, p. 357.
 - T. A. I. M E, vol. 40, p. 848. 5 pages.
- THE ZACUALPAN DISTRICT, MEXICO, By J. M. Platt. E. & M. J., vol. 88, p. 670. 4 columns. I.
- THE SILVER MINE OF "JESUS MARIA," IN NEW LEON, MEXICO. Min. Mag., vol. 1, p. 34. 14 pages; p. 570. 11½ pages.
- MINES OF PENOLES COMPANY, MAPINI, MEXICO. By C. T. Rice. E. & M J., vol 86, p. 309. 13½ columns. I.
- Pachuca and Real del Monte Silver District, Mexico. By C. T. Rice. E. & M. J., vol. 86, p. 519. 17 columns. I.
- Some Reminiscences of Old Dolores, Mexico. By V. Pender. E. & M. J., vol. 89, p. 1329. 6 columns.

- DIENTE, MEXICO. By E. McCormick. Min & Sci. Press, vol. 95, p 648. 1 column
- ZACATECAS, A FAMOUS SILVER CAMP OF MEXICO. By C. T. RICE E & M. J. vol. 86, p. 401. 15½ columns. I.
- SULPHUR MINING IN MEXICO By E. F. White M & M, vol. 30, p 75. 34 columns. I.
- THE SULPHUR DEPOSITS OF MAPIMI, MEXICO. By J D Villarello T. I. M E, vol. 37, p 676. 2 pages.
- ZINC MINING IN CHIHUAHUA, MEXICO. By W. H. Seamon E & M J., vol 90, p 679. 1½ columns.
- DEL CARMEN ZINC MINE, MEXICO. M. & M., vol. 31, p. 437. 4½ columns. I.
- BOQUILLAS ZINC DEPOSITS, MEXICO By C Moser M & M, vol. 31, p. 479. 1½ columns I

Michigan

- PORTLAND CEMENT IN MICHIGAN By L. L. Kimball. U. S. G. S., Mineral Resources, 1903.
- COPPER-BEARING ROCKS OF LAKE SU-PERIOR By R D Irving. U. S G. S., 3d Ann Rept., pp. 89-188 1881-82. I.
- THE COPPER-BEARING ROCKS OF LAKE SUPERIOR. By R. D. Irving. U. S. G. S., Monograph V, 464 pages. I. 1883.
- THE LAKE SUPERIOR COPPER MINES. By J. A. Callender. Min. Mag., vol. 2, p. 249. 3 pages.
- Notes from the Lake Superior Iron Ranges. By D. E. Woodbridge. E. & M. J., vol. 89, p. 863. 31 columns.
- THE GOGEBIC RANGE T. L. S. M. I, vol. 15, p. 10 16 pages.
- THE MARQUETTE IRON RANGE. By G. A. Newett. T. L. S. M. I., vol. 14, p. 19. 12 pages. Map.
- DEVELOPMENT IN THE MARQUETTE RANGE IRON ORE MINES. M. & M., vol. 30, p. 195. 6 columns. I.

THE SILVER OF THE LAKE SUPERIOR MINERAL REGION. Min. Mag., vol. 1, p. 447. 8 pages; p. 612. ½ page.

Minnesota

- IRON MINING IN MINNESOTA. By E. K Soper Mm & Sci Press, vol. 101, p. 767. 5½ columns. I
- IRON MINING AT COLERAINE, MINNE-SOTA By A. H. Fay. E. & M. J., vol. 88, p. 770. 3 columns I.
- STRUCTURAL MATERIALS AVAILABLE IN THE VICINITY OF MINNEAPOLIS, MINNESOTA. By E. F. Burchard. U. S. G. S., Bull, 430, p 280 12 pages. 1909.

Mississippi

GEOLOGY AND MINERAL RESOURCES OF MISSISSIPPI By A F Crider. U. S G. S, Bull., 283, 99 pages I. 1906.

Missouri

- COALFIELDS OF IOWA AND MISSOURI.

 By H Hinds. M & M, vol 31,
 p. 80. 4½ columns I Map
- THE GEOLOGY, MINING AND PREPARATION OF BARITE IN WASHINGTON COUNTY, MISSOURI. By A A. Steel. T A. I. M. E, vol. 40, p. 711. 32½ pages. I.
- THE ORE-DEPOSITS OF THE JOPLIN REGION, MISSOURI By F. L. Clerc. T. A. I. M. E, vol. 38, p 320. 23 pages.
- LEAD MINING IN THE JOPLIN DISTRICT By L. L. Wittich M. & M. vol. 30, p 743. 4½ columns. I.
- OPERATIONS OF THE DOC RUN LEAD COMPANY. By A. H. Fay. E. & M. J., vol. 89, p. 610. 9 columns. I.
- OZARK LEAD- AND ZINC-DEFOSITS: Their Genesis, Localization, and Migration. By C. R. Keyes. T. A. I. M. E., vol. 40, p. 184. 47½ pages. I.; p. 856. 5½ pages.
- LEAD AND ZING ORES IN MISSOURI. By J. R. Finlay. E. & M. J., vol. 86, p. 605. 15‡ columns. I.

- ZINC AND LEAD DEPOSITS OF SOUTH-WESTERN MISSOURI By F. L Garrison. Min & Sci. Press, vol. 96, p 291 7 columns, I.; p. 325, 72 columns. I
- JOPLIN DISTRICT ZINC AND LEAD ORES. M. & M, vol. 31, p. 327. 3 columns.
- JOPLIN DISTRICT ZING AND LEAD ORES. By L. L. Wittieh. M. & M., vol. 31, p 31. 1½ columns.
- THE MINING OF OXIDIZED ZINC ORES. By L L. Wittich. M. & M., vol. 30, p. 276. 2 columns. I.
- MIGRATIONS OF THE JOPLIN ZINC BELT. By C. R. Keyes. E & M. J, vol. 87, p. 1049 2½ columns. I.
- TRIPOLI DEPOSITS NEAR SENECA,
 MISSOURI By C. E. Siebenthal
 and R D. Mesler. U. S. G. S.,
 Bull 340, p. 429. 10 pages I.
 1907
- See also Miscellaneous Production.

Montana

- Notes on the Mineral Deposits of the Bearpaw Mountains, Montana By L. J. Pepperberg. U. S. G. S., Bull. 430, p 135. 12 pages. I. 1909
- MINERAL RESOURCES OF THE BIG-HORN MOUNTAIN REGION. By W. H Darton. U. S. G. S., Bull. 285, p. 303. 8 pages. 1905.
- MINERAL RESOURCES OF THE BIG-HORN BASIN. By C. A. Fisher. U. S. G. S., Bull 285, p. 311. 4½ pages. 1905.
- CEMENT MATERIAL NEAR HAVRE, MONTANA By L. J. Pepperberg. U. S. G. S., Bull 380, p. 327. 10 pages 1908.
- CLAYS IN THE KOOTENAI FORMATION NEAR BELT, MONTANA. By C. A. Fisher. U. S. G. S., Bull. 340, p. 417. 7 pages. 1907.
- THE COAL INDUSTRY OF MONTANA. By J. P Rowe. E. & M. J, vol. 85, p. 1055. 12 columns. I.

- THE COAL MINING INDUSTRY OF MON-TANA. By J. P. Rowe E. & M J, vol. 87, p. 845. 16½ columns I.
- THE GREAT FALLS COAL FIELD, MONTANA. By C A. Fisher U. S. G. S., Bull. 316, p. 161. 14 pages. I. 1906.
- THE GREAT FALLS COALFIELD IN MONTANA. By A. T. Shurick E. & M. J., vol. 87, p 587. 10½ columns. I.
- THE GREAT FALLS COAL FIELD OF MONTANA. By C A. Fisher. U. S. G. S., Bull 356. 87 pages. I. 1909.
- DEVELOPMENT OF THE BEAR CREEK COAL FIELDS, MONTANA. By C. A. Fisher. U. S. G. S., Bull. 285, p. 269 2 pages. 1905.
- COAL NEAR THE CRAZY MOUNTAINS, MONTANA By R. W. Stone. U. S. G. S., Bull 341, p 78. 14 pages. I. 1907.
- THE BULL MOUNTAIN COAL FIELD, MONTANA. By L. H. Woolsey. U. S. G. S., Bull. 341, p. 62. 16 pages. I 1907.
- THE MILES CITY COAL FIELD, MONTANA. By A. J Collier and C. D. Smith. U S G. S., Bull 341, p. 36. 26 pages. I. 1907.
- THE COAL FIELDS OF PART OF DAW-SON, ROSEBUD AND CUSTER COUN-TIES, MONTANA. By A. G. Leonard. U S G. S., Bull 316, p. 194. 18 pages. I 1906.
- COALS OF CARBON COUNTY, MONTANA. By N. H. Darton. U. S. G. S., Bull. 316, p. 174 20 pages. I. 1906.
- THE LEWISTON COAL FIELD, MON-TANA. By W. R. Calvert. U. S. G. S, Bull. 341, p. 108 15 pages. I. 1907.
- THE LEWISTON COAL FIELD, MON-TANA. By W. R. Calvert. U. S. G. S., Bull. 390. 83 pages. I. 1909
- THE MILK RIVER COAL FIELD, MONTANA. By L J. Pepperberg. U. S. G. S., Bull. 381, p. 82. 26 pages. I. 1908.

- THE CENTRAL PART OF THE BALL MOUNTAIN COAL FIELD, MONTANA. By R. W. Richards U. S. G. S., Bull. 381, p. 60. 22 pages. I. 1908.
- COAL FIELDS OF THE NORTHEAST SIDE OF THE BIGHORN BASIN, WYOMING, AND OF BRIDGER, MONTANA. By C. W Washburne U S G S, Bull. 341, p. 165. 35 pages. I. 1907.
- THE RED LODGE COAL FIELD, MONTANA. By E. G. Woodruff. U. S. G S, Bull 341, p. 92. 16 pages. I. 1907.
- Notes on the Coals of the Custer National Forest, Montana. By C. H. Wegemann. U. S. G. S., Bull. 381, p 108. 7 pages. I 1908.
- RECENT DEVELOPMENTS NEAR HELENA, MONTANA. E. & M. J, vol. 90, p 354. 1½ columns. Map.
- RADERSBURG DISTRICT, MONTANA.

 Min. & Sci. Press, vol. 101, p. 170.

 3 columns. D.
- Notes on the Geology of the Radersburg District, Montana. By D. C. Bard. E & M. J., vol. 90, p. 599. 1 column.
- GOLD DEPOSITS OF THE LITTLE ROCKY MOUNTAINS, MONTANA. By W. H. Emmons. U. S. G. S., Bull. 340, p. 96. 20½ pages. I. 1907.
- THE GRANITE-BIMETALLIC AND CABLE MINES, PHILIPSBURG QUADRANGLE, MONTANA. By W. H. Emmons. U. S. G. S., Bull. 315, p. 31. 25 pages. I. 1906.
- MINES OF MISSOULA COUNTY, MONTANA. By J. P. Rowe. M. & M., vol. 31, p. 581. 63 columns. I.
- JUDITH BASIN, MONTANA. Min. & Sci. Press, vol. 101, p 398. 4½ columns. I.
- GYPSUM DEPOSITS OF MONTANA. By J. P. Rowe. E. & M. J., vol. 85, p. 1243. 3 columns. I.
- THE NORTH DAKOTA-MONTANA LIG-NITE AREA By A. G. Leonard. U. S. G. S., Bull. 285, p. 316. 14 pages. 1905.

- THE SENTINEL BUTTE LIGHTE FIELD, NORTH DAKOTA AND MONTANA. By A. G. Leonard and C. D. Smith. U. S. G. S, Bull. 341, p. 15. 21 pages. I. 1907.
- THE FORT PECK INDIAN RESERVATION
 LIGNITE FIELD, MONTANA By C.
 D. Smith. U. S. G. S., Bull. 381,
 p. 40. 20 pages. I. 1908.
- Montana Sapphires. M. & M., vol. 29, p 199. ½ column.
- SAPPHIRE IN MONTANA. Min. & Sci. Press, vol. 95, p. 433. 1 column.
- THE CORBIN DISTRICT, JEFFERSON COUNTY, MONTANA. By F. Bushnell. E. & M. J., vol. 89, p. 1154. 5½ columns. I.
- ZINC MINING IN BUTTE, MONTANA. E. & M. J., vol. 87, p. 912. 1 column

Nebraska

CEMENT MATERIALS IN REPUBLICAN VALLEY, NEBRASKA. By N. H. Darton. U. S. G. S., Bull 430, p. 381. 8 pages. I. 1909.

Nevada

- CENTRAL NEVADA. By A. H. Elftman. Min. & Sci. Press, vol. 96, p. 398. 2 columns. Map.
- MINING AT HAMILTON, NEVADA. By W. S. Larsh. M. & M., vol. 29, p. 521. 5 columns. I.
- An Occurrence of Asphalite in Northeastern Nevada. By R. Anderson. U. S. G. S., Bull. 380, p. 283. 2½ pages. 1908
- FOOTHILL COPPER BELT OF THE SIERRA NEVADA. By J. A. Reid. Min. & Sci. Press, vol. 96, p. 388. 9½ columns. I.
- THE YERINGTON COPPER DEPOSITS. By F. L. Ransome M. & M., vol. 30, p. 88. 6 columns. I.
- THE YERINGTON DISTRICT, NEVADA. By C. S. Durand. M. & M., vol. 31, p. 24. 2½ columns. I.

- THE YERINGTON COPPER DISTRICT, NEVADA. By J A. Carpenter Min. & Sci. Press, vol. 101, p 4. 10½ columns. I
- YEERINGTON COPPER DISTRICT By F. L Ransome Min. & Sci. Press, vol. 100, p. 354. 4\frac{2}{3} columns Map
- CONDITIONS IN THE YERINGTON COPPER DISTRICT, NEVADA By J. Tyssowski. E & M. J., vol 89, p 764. 6½ columns. I.
- THE YERINGTON COPPER DISTRICT, NEVADA. By F. L. Ransome U. S. G. S., Bull. 380, p. 99, 21 pages. I. 1908.
- SECONDARY COPPER ORES OF THE LUDWIG MINE, YERINGTON, NEVADA By J. P Jennings. J. C M. I, vol. 11, p. 463. 3½ pages.
- RAY CONSOLIDATED MINES, NEVADA. By R L Hernek M. & M, vol 29, p 544. 6½ columns. I.
- COPPER MINING AT ELY, NEVADA. By C. De Kalb. Min. & Sci. Press, vol. 98, p 58. 6 columns. I.
- PRESENT CONDITIONS OF ELY. Min. & Sci. Press, vol. 100, p. 866. 5\frac{2}{3} columns I.
- Geological and Physical Conditions of Tonopah Mines. By W. P. Jenney. Min. & Sci. Press, vol. 99, p. 685. 3 columns. I.
- THE MINES AND MILLS OF TONOPAH, NEVADA. By G. E. Wolcott E. & M. J, vol. 87, p. 594. 7 columns. I.
- THE GOLDFIELD TYPE OF ORE OCCURRENCE. By R. T. Hill. E. & M J, vol. 86, p. 1096. 11½ columns I.
- Goldfield, Nevada. By T. A. Rickard. Min. & Sci. Press, vol. 96, p. 559, 6½ columns, I.; p 664, 5 columns; p. 738, 6½ columns, I.; p. 774, 6½ columns, I.; p. 840, 8 columns, I.; vol. 97, p. 20, 4½ columns, I.; p. 50, 7½ columns. I.
- GOLDFIELD AND THE GOLDFIELD DIS-TRICT OF NEVADA. By J. Tyssowski. E. & M. J., vol. 87, p. 1229. 6 columns I.

- RAWHIDE, NEVADA. By A. Del Mar. E & M. J., vol. 85, p. 853. 6 columns. I
- RAWHIDE, NEVADA By W. F. Boericke. E. & M J., vol. 85, p 565. 1 column.
- NOTES ON RAWHIDE, NEVADA. Min. & Sci. Press, vol. 96, p. 424. 3½ columns.
- ORE FORMATION IN THE WONDER DISTRICT, NEVADA. By E. A. Ritter E. & M. J., vol. 87, p. 290. 7 columns. I.
- MONTGOMERY-SHOSHONE MINE. By A H. Martin. Min. & Sci. Press, vol. 100, p. 289. 3 columns. I.
- KIMBERLY, NEVADA. By J. A. Carpenter. Min. & Sci. Press, vol. 100, p. 482. 3 columns. I
- MINING AND MILLING AT RAWHIDE, NEVADA. By G. E. Wolcott E. & M. J, vol. 87, p. 345. 11 columns. I.
- THE SEVEN TROUGHS MINING DIS-TRICT. By W. M. Hauck E & M J, vol. 85, p. 644. 4 columns. I.
- SEVEN TROUGHS DISTRICT OF NEVADA. By F. L. Ransome. Min & Sci. Press, vol 99, p 790. 6½ columns
- Manhattan, Nevada. E. & M J, vol. 86, p. 1002 3 columns. I.
- Notes on the Manhattan Placers, Nye County, Nevada. By C. C. Jones. E & M. J., vol. 88, p. 101. 8 columns. I
- MINES AND PLANTS OF THE PITTS-BURG SILVER PEAK. By H. Hanson. Min. & Sci. Press, vol. 98, p. 657. 9² columns. I.
- CAMP ALUNITE, A NEW NEVADA GOLD DISTRICT. By R. T. Hill E. & M. J, vol. 86, p. 1203. 11 columns. I.
- REMINISCENCES OF GOLDFIELD, NE-VADA. By M. R. Lamb E. & M. J., vol. 87, p. 441. 5 columns
- BANNOCK, NEVADA. By C. S. Thomas. Min. & Sci. Press, vol. 99, p. 820. 1 column. L.

- ROUND MOUNTAIN, NEVADA. By F. L. Ransome. Min & Sci. Press, vol. 99, p. 568 2½ columns. I.
- ROUND MOUNTAIN, NEVADA. By F. L. Ransome. U S G S., Bull. 380, p. 44. 4 pages. I 1908.
- ROUND MOUNTAIN, NEVADA. By G A. Packard. Min & Sci Press, vol. 96. p. 807 4½ columns I.
- NATIONAL, NEVADA. By H. C Cutler. Min & Sci. Press, vol 101, p. 606. 3½ columns. I.
- Some Bullfrog Mines By W H. Spaulding. E. & M. J., vol. 85, p. 159. 5 columns
- NOTES ON OPERATIONS IN JARBRIDGE CAMP, NEVADA. By W W. Fisk. E. & M. J., vol. 90, p 763 5½ columns. Map
- REPORT ON MINING GEOLOGY OF EUREKA DISTRICT, NEVADA. By J. S. Curtis. U S G. S., 4th Ann. Rept, pp. 221–251 1882–83. I.
- Jarbridge, Nevada. By W. A. Scott. Min. & Sci Press, vol. 100, p. 613. 43 columns. I.
- IRON ORES NEAR DAYTON, NEVADA.

 By E. C. Harder. U. S. G. S,
 Bull. 430, p 240. 6 pages. I.

 1909.
- Whitepine Iron-Ore Deposits. By E. C. Harder. Min & Sci. Press, vol. 100, p. 387. 3 columns. I.
- IRON ORES NEAR DAYTON, NEVADA. By E. C. Harder. Mm. & Sci Press, vol. 101, p. 212. 2 columns. Map.
- AMARILLA IRON AND PHOSPHATE DE-POSITS, NEVADA. By O. H. Hershey Min. & Sci. Press, vol. 97, p. 535. 3\frac{1}{2} columns.
- THE YELLOWPINE MINING DISTRICT OF NEVADA. By N. B. Gregory. E. & M. J., vol. 90, p. 1308. 5½ columns.
- NICKEL ORE IN NEVADA. E. & M. J., vol. 86, p. 23. F column.
- NICKEL-COPPER-PLATINUM ORE IN NEVADA. By A. M. Thompson. E. & M. J., vol. 86, p. 72. ½ column.

- OIL PROSPECTS IN NEVADA. Min. & Sci Press, vol. 97, p. 817. 2 columns
- Two Areas of Oil Prospecting in Lyon County, Western Nevada By R. Anderson. U S G S., Bull. 381, p. 490. 3 pages. 1908.
- ALLEGED OIL PROSPECTS IN NEVADA M & M, vol. 29, p. 335. 1½ columns.
- GEOLOGY AND OIL PROSPECTS OF THE RENO REGION, NEVADA. By R. Anderson. U S. G. S., Bull 381, p. 475. 15 pages. 1908.
- PLATINUM IN SOUTHEASTERN NEVADA. By H. C. Bancroft Min. & Sci. Press, vol. 100, p. 797. \(\frac{1}{3}\) column.
- QUICKSILVER IN NEVADA. By W. C. Davis. Min. & Sci. Press, vol. 99, p. 663. $\frac{2}{3}$ column. I.
- THE SILVEB-LEAD DEPOSITS OF EURE-KA, NEVADA E & M. J., vol. 85, p. 123. 3 columns.
- THE COMSTOCK MINES TODAY. By W. Symmes. Min. & Sci. Press, vol. 99, p. 24. 4½ columns. I.
- PROGRESS ON THE COMSTOCK LODE. By R. L. Herrick M. & M., vol. 29, p. 150. 10½ columns. I.
- THE GREAT COMSTOCK LODE. By G. McM. Ross. Min & Sci. Press, vol. 95, p. 468. 4 columns.
- GEOLOGY AND MINERAL RESOURCES OF THE OSCEOLA MINING DISTRICT, WHITE PINE COUNTY, NEVADA. By F. B. Weeks. U S. G S., Bull. 340, p 117 18 pages. I. 1907.
- THE YELLOWPINE MINING DISTRICT OF NEVADA. By N. B Gregory. E. & M J, vol. 90, p 1308. 5½ columns.
- NOTES ON THE PIOCHE MINING DISTRICT, NEVADA. By S. F. Shaw. E. & M J., vol. 88, p. 545. 10\frac{1}{3} columns I.
- PIOCHE, NEVADA. By J. W Abbott. Min. & Sci. Press, vol. 95, p. 176. 4 columns. I.

- HORNSILVER DISTRICT, NEVADA By F. L. Ransome. Min. & Sci. Press, vol. 99, p. 433. 2 columns.
- THE HORNSILVER DISTRICT, NEVADA. By F. L. Ransome. U. S. G. S., Bull 380, p. 41. 3 pages. 1908.
- THE BRISTOL MINES, NEVADA. By S. L. Goodale. M. & M., vol. 30, p. 507 4 columns. I.
- TUNGSTEN DEPOSITS IN THE SNAKE RANGE, WHITE PINE COUNTY, EAST-ERN NEVADA By F. B. Weeks. U. S. G. S, Bull 340, p 263. 7 pages. I. 1907.
- ZINC MINING AT YELLOW PINE, NEVA-DA. By N B. Gregory. M & M., vol 31, p. 340. 2½ columns. I.

Newfoundland

THE MINERAL RESOURCES OF NEW-FOUNDLAND. By B Symons. E. & M. J, vol. 90, p. 360. 10 columns. Map.

New Hampshire

- Supplementary Notes on the Granites of New Hampshire. By T. N. Dale U. S G. S., Bull. 430, p. 346. 26 pages 1909.
- Some Ore Deposits of Maine and the Milan Mine, New Hampshire. By W. H. Emmons. U. S. G. S., Bull. 432, 62 pages. I.
- THE SHELBURNE LEAD MINING COM-PANY, NEW HAMPSHIRE. By J. T. Hodge. Min. Mag, vol. 1, p. 27. 7½ pages, I.; vol. 3, p. 481. 10 pages
- PYRITE MINING IN NEW HAMPSHIRE. By A. H. Fay. E. & M. J., vol. 88, p. 463. 2 columns. I

New Hebrides

- MINERAL POSSIBILITIES OF THE NEW HEBRIDES ISLANDS. By G. M. Colvocoresses. E. & M. J., vol. 87, p. 957. 3 columns.
- THE COPPER LODES OF NEW CALE-DONIA. By E. A. Weinberg. T. Au. I. M. E., vol. 7, p. 138. 12 pages. I.

SULPHUR IN THE NEW HEBRIDES ISLANDS. E. & M. J., vol. 87, p. 958. 2 column.

New Jersey

- A GEOGRAPHIC DICTIONARY OF NEW JERSEY. By H. Gannett. U S. G S., Bull. 118. 131 pages. 1894. I.
- COPPER MINING IN NEW JERSEY. By H. B Kummel E. & M. J., vol 87, p. 808. 2 columns.
- IRON ORE IN NEW JERSEY. By H W. Kummel. E. & M. J., vol. 85, p. 1193. 2 columns.
- IRON ORE OF NEW JERSEY: Geological Occurrence, Properties and Metallurgy By W. Kitchell Min. Mag. vol. 8, p 332. 16 pages; p. 434, 4 pages.
- THE WHITE LIMESTONE AREA OF FRANKLIN, SUSSEX COUNTY, NEW JERSEY. By J. E. Wolff and A. H. Brooks. U. S. G. S., 18th Ann. Rept., pt. 2, pp. 425–458. 1896–97. I.
- THE MARLS OF NEW JERSEY. By G. H. Cook. Min. Mag, vol 5, p. 132 14 pages

New Mexico

- THE COAL MINES OF DAWSON, NEW MEXICO. By J. E Sheridan. M. & M., vol. 31, p. 653. 9½ columns. I.
- THE ENGLE COAL FIELD, NEW MEXICO. By W. T. Lee. U. S. G. S., Bull 285, p. 240. 1 page. 1905.
- THE DURANGO-GALLUP COAL FIELD OF COLORADO AND NEW MEXICO. By F. C. Schrader. U. S. G. S., Bull 285, p. 241 19 pages. L. 1905
- A RECONNAISSANCE SURVEY OF THE WESTERN PART OF THE DURANGO-GALLUP COAL FIELD OF COLORADO AND NEW MEXICO By M. K. Shaler. U. S. G. S., Bull. 316, p. 376. 50 pages. I. 1906.

- THE COAL-MINES AND PLANT OF THE STAG CANON FUEL Co., DAWSON, New Mexico By J E Sheridan. T. A. I. M E, vol. 40, p. 354. 24 pages I
- THE UNA DELL GATO COAL FIELD, SANDOVAL COUNTY, NEW MEXICO. By M. R. Campbell U. S G S, Bull. 316, p 427. 4 pages. I 1906.
- COAL IN THE VICINITY OF FORT STAN-TON RESERVATION, LINCOLN COUNTY, NEW MEXICO. By M. R. Campbell. U. S. G. S., Bull. 316, p. 431. 4 pages. I 1906.
- THE COAL FIELD BETWEEN GALLINA AND RATON SPRINGS, NEW MEXICO, IN THE SAN JUAN COAL REGION. By J. H. Gardner U. S. G. S., Bull 341, p. 335 17 pages. I. 1907
- THE COAL FIELD BETWEEN DURANGO, COLORADO, AND MONERO, NEW MEXICO By J. H. Gardner. U. S. G. S., Bull. 341, p. 352. 12 pages. I. 1907.
- THE COAL FIELD BETWEEN GALLUP AND SAN MATEO, NEW MEXICO. By J. H. Gardner U. S. G. S., Bull., 341, p. 364. 15 pages. I. 1907.
- ISOLATED COAL FIELD IN SANTA FE AND SAN MIQUEL COUNTIES, NEW MEXICO. By J. H. Gardner. U. S. G. S., Bull. 381, p. 447. 5 pages. 1908.
- THE CARTHAGE COAL FIELD, NEW MEXICO. By J. H. Gardner. U. S. G. S., Bull. 381, p. 452. 9 pages. I. 1908.
- THE COAL FIELD BETWEEN SAN MATEO AND CUBA, NEW MEXICO. By J. H. Gardner. U. S. G. S., Bull. 381, p. 461. 13 pages. I. 1908.
- CARBONACEOUS COAL IN NEW MEXICO. By J. H. Gardner. M. & M., vol. 30, p. 570. 21 columns. I.
- THE RICH COALFIELDS IN NEW MEXico. E. & M. J., vol. 86, p. 1251. 1½ columns.

- THE COAL-MINES AND PLANT OF THE STAG CAÑON FUEL CO, DAWSON, N. M. By J. E. Sheridan. T. A. I. M. E., vol. 40, p. 354. 24 pages. I.
- Burro Mountain Mining District, New Mexico E & M. J, vol 89, p. 1121. 3 columns. I.
- Burro Mountain Mining District. By I J. Stauber. M. & M, vol 30, p. 380. 4½ columns. I.
- Sylvanite District, New Mexico, By G. A Martin. E. & M. J., vol. 86, p. 962. 3½ columns.
- SYLVANITE, NEW MEXICO, THE NEW GOLD CAMP. By F. A. Jones. E. & M. J, vol. 86, p. 1101. 9 columns. I.
- OCCURRENCE OF ORE AT SYLVANITE, New Mexico. E. & M. J., vol. 86, p. 1102. 3 columns. I.
- THE BLACK RANGE MINING DISTRICT, NEW MEXICO. By M Fishback. E. & M. J., vol. 89, p 911. 4 columns. I
- THE COCHITI MINING DISTRICT, NEW MEXICO. By P. E. Barbour. E & M. J., vol. 86, p. 173. 6½ columns. I.
- REVIVAL OF MINING IN THE MOGOL-LONS, NEW MEXICO. By E. G. Spilsbury. E. & M J., vol. 88, p. 62 10½ columns. I.
- THE LORDSBURG MINING DISTRICT, NEW MEXICO. By E. D. Fry E. & M. J., vol. 90, p 820. 1 column.
- MINES OF THE LORDSBURG DISTRICT, NEW MEXICO. By J. L. Wells. E. & M. J., vol. 87, p. 890. 2½ columns.
- THE MANZANO GROUP OF THE RIO GRANDE VALLEY, NEW MEXICO. By W. T. Lee and G. H. Girty. U. S. G. S., Bull. 309. 141 pages. I. 1909.
- New Mexico Gold Gravels. By J. A. Carruth. M. & M., vol. 31, p. 117. 5 columns. I.
- GYPSUM IN NORTHWESTERN NEW MEXICO. By M. K. Shaler. U. S.

- G. S., Bull. 315, p. 260. 5 pages. I. 1906.
- THE HANOVER IRON-ORE DEPOSITS, NEW MEXICO. By S. Paige. U. S G. S. Bull. 380, p. 199. 16 pages I. 1908.
- HANOVER IRON-ORE DEPOSITS, NEW MEXICO. By S. Paige. Min. & Sci. Press, vol. 100, p. 285. 3\frac{2}{3} columns. I.
- THE TRES HERMANAS MINING DIS-TRICT, NEW MEXICO. By W. Lindgren U. S. G. S., Bull. 380, p. 123. 5 pages 1908.
- TRES HERMANAS MINING DISTRICT, NEW MEXICO. By W. Lindgren. Min. & Sci. Press, vol. 100, p 491. 2 columns
- Luna County, New Mexico. By E. McCormick. Min. & Sci Press, vol. 98, p. 328 17 columns
- MEERSCHAUM IN NEW MEXICO By D. B. Sterrett. U. S. G. S., Bull. 340, p. 466. 6 pages. 1907.
- Genesis of the Lake Valley, New Mexico, Silver Deposits. By C. R. Keyes. T. A. I. M. E., vol. 39, p. 139. 30½ pages. I.
- Turquoise Mining, Burro Mountains, New Mexico. By E R Zalmski. E. & M. J., vol. 86, p. 843. 10 columns. I.

New York

- An Arsenic Mine in Putnam County New York. By E. K. Judd. E. & M. J., vol. 85, p. 306. 1 column.
- FELDSPAR AND QUARTZ DEPOSITS OF SOUTHEASTERN NEW YORK. By E. S. Bastin. U. S. G. S., Bull. 315, p. 394. 4 pages. 1906.
- Gold in the Adirondacks. E. & M. J., vol. 89, p. 620. 5 columns.
- THE FOREST OF DEAN IRON MINE, NEW YORK. By G. C. Stoltz. E. & M. J., vol. 85, p. 1091. 5½ columns. I.
- THE CLINTON IRON-ORE DEPOSITS IN NEW YORK STATE. By D. H. New-

- land. T. A. I. M. E., vol. 40, p. 165 19½ pages. I.
- THE MAGNETITE BELTS OF PUTNAM COUNTY, NEW YORK. By C. A. Stewart. Sch. Mines Quart., vol. 29, p. 283. 12 pages. I.
- THE IRON DEPOSITS OF NEW YORK STATE. By J. D. Whitney. Mm. Mag., vol 7, p 255. 3½ pages.
- THE SLATE BELT OF EASTERN, NEW YORK AND WESTERN VERMONT. By T. N. Dale. U. S. G. S., 19th Ann. Rept., pt. 3, pp. 153-307. 1897-98. I.
- MINERAL PRODUCTION OF NEW YORK. By D. H. Newland. E. & M. J, vol. 85, p. 1007. 3½ columns.
- THE MINERAL PRODUCTION OF NEW YORK IN 1908. By D. H. Newland E. & M. J., vol. 87, p. 1273. 4½ columns.

New Zealand

- MINING IN NEW ZEALAND. Min. & Sci. Press, vol. 96, p. 233. 2 columns. I.
- THE BLACKWATER MINES AT WAINTA, NEW ZEALAND. By S. Fry E. & M J, vol. 89, p. 726. 4 columns I.
- GOLD AND SILVER MINING IN NEW ZEALAND. By W. Wilson. Min. & Sci. Press, vol. 100, p 520. 4 columns. I.
- GOLD AND SCHEELITE NEAR MACRAES, NEW ZEALAND. By P. Morgan. Min. & Sci. Press, vol. 99, p 33. 21 columns.
- THE GOLD-BEARING LODES OF BENDIGO AND CARRICE, NEW ZEALAND.
 By.J Park. Mm. & Sci. Press, vol.
 97, p. 121. 3½ columns. I.
- THE ORE DEPOSITS OF WAIHI, NEW ZEALAND. By A. M. Finlayson. Min. Mag., London, vol. 2, p. 281. 8½ columns. I.

Nicaragua

Mining in Nicaragua. By T. L. Carter. T. A. I. M. E., vol. 41, p. 594. 37 pages. I. Map.

- NICARAGUA MINING CONDITIONS. Min. & Sci. Press, vol. 101, p. 774. 1 column. I.
- MINING IN NICARAGUA. By T. L. Carter. Min. Mag., London, vol. 3, p. 123. 10½ columns I.
- CENTRAL AMERICA: Nicaragua and Its Mines. Min. Mag, vol. 6, p. 146. 6 pages.
- THE GOLD MINING INDUSTRY IN NICARAGUA. By T L Carter E. & M. J, vol. 90, p. 1204 8\frac{2}{3} columns. I.
- THE MINING INDUSTRY OF NICARA-GUA. By T. L Carter. M. & M., vol. 31, p. 566. 42 columns. I.
- Piz-Piz District, Nicaragua. By W. A. Connelly. Min. & Sci. Press, vol. 100, p. 350. 4 columns. Map
- Gold in Eastern Nicaragua. By C. C. Semple. Min. & Sci. Press, vol. 99, p. 221. 6½ columns. I
- Notes on the Nicaraguan Goldfields. By M R. Walker. E. & M. J, vol. 88, p. 263. 3\frac{1}{2} columns. I.

Nova Scotia

- THE AURIFEROUS ANTIMONY ORE OF WEST GORE, NOVA SCOTIA. By D. F. Haley. E. & M. J., vol. 88, p. 723. 5½ columns.
- THE CARBONACEOUS AND BITUMINOUS MINERALS OF NEW BRUNSWICK. By R. W. Ells J. C. M. I., vol. 11, p. 204. 15 pages.
- THE SHALE AND CLAY DEPOSITS OF NOVA SCOTIA AND PORTIONS OF NEW BRUNSWICK. By H. Ries. J. C. M. I., vol. 13, p. 336, 20½ pages. I.
- THE CLAY AND SHALE DEPOSITS OF NOVA SCOTIA. By H. Ries. J. M. Soc. N. S, vol. 15, p. 9. 18½ pages.
- COAL MINING IN PICTOU COUNTY, NOVA SCOTIA. By H. E. Coll. E. & M. J., vol. 85, p. 1101. 7 columns. I.
- DOMINION No. 2 COLLIEBY OF THE DOMINION COAL COMPANY. By A. G. Haultain. J. C. M I., vol. 13, p. 641. 14 pages. I.

- NOTES ON THE MINING PROPERTY OF THE SEAL HARBOUR MINING COM-PANY. By T. G. MacKenzie J. M. Soc. N S., vol 12, p. 63. 19 pages.
- How Can the Gold Mining Industry of Nova Scotia be Assisted? By E. P. Brown. J. M. Soc. N. S, vol. 13, p 33. 13½ pages.
- Some of the Causes of the Present Condition of Gold Mining in Nova Scotia. By G W. Stuart. J M. Soc. N. S., vol. 12, p. 85. 19½ pages.
- GOLD MEASURES OF TANGIER, NOVA SCOTIA. By G. A. Packard Mm. & Sci. Press, vol. 95, p 430. 4 columns. I.
- THE OLDHAM STERLING GOLD MINE, NOVA SCOTIA. By C. V Brennan. J. C. M. I, vol. 10, p. 426. 16 pages. I.
- A PRACTICAL SUGGESTION FOR TEST-ING THE GOLD MINES OF NOVA SCOTIA By F. P. ROUMAN. J M. Soc. N. S., vol. 13, p. 27. 6 pages.
- GYPSUM ON CAPE BRETON ISLAND, NOVA SCOTIA. By J. Tyssowski. E. & M. J., vol. 88, p 569. 4 columns. Maps.
- New Brunswick and the Acadian Iron Mines. Min. Mag., vol. 6, p. 117. 8 pages.
- IRON ORES OF NOVA SCOTIA. By P. Thompson. E. & M. J., vol 88, p. 358. 13 columns.
- A NEW IRON ORE FIELD IN THE PROVINCE OF NEW BRUNSWICK. By J. E. Hardman. J. C M. I., vol. 11, p. 156. 9 pages
- THE DISCOVERY OF IRON ORE IN THE NEW BRUNSWICK PROVINCE. J. C. M. I., vol. 11, p 159. 6 pages.
- STRUCTURE OF THE TUNGSTEN DE-FOSITS OF MOOSE RIVER, NOVA SCOTIA. By E. R. Fairbault. J. M. Soc. N. S., vol. 15, p. 59. 6 pages.

Ohio

- THE BERBA GRIT OIL SAND IN THE CADIZ QUADRANGLE, OHIO. By W. T Griswold. U S. G. S., Bull. 198. 43 pages. I 1902.
- THE BEREA OIL SAND IN FLUSHING QUADRANGLE, OHIO. By W T. Griswold U. S. G. S, Bull. 346. 30 pages I 1908

Oklahoma (Indian Territory)

- A GAZETTEER OF INDIAN TERRITORY (OKLAHOMA). By H. Gannett. U. S. G S., Bull. 248. 70 pages. 1905.
- GEOLOGY OF THE MCALESTER COAL FIELD, INDIAN TERRITORY. By J A. Taff U. S. G. S, 19th Ann. Rept, pt. 3, pp 423-600. 1897-98. I.
- GEOLOGY OF EASTERN CHOCTOW COAL FIELD, INDIAN TERRITORY. By J A Taff and G. I Adams. U S. G. S, 21st Ann Rept., pt. 2, pp. 257-311 1899-1900. I.
- THE OKLAHOMA COAL FIELDS. By C. N. Gould. M & M., vol. 29, p. 275 2½ columns. I.
- COAL MINING IN OKLAHOMA By W. P. Thomas. M. & M., vol. 31, p. 193. 5 columns. I. and Map.
- WICHITA MOUNTAINS, OKLAHOMA By G. W. Kneisly. Min & Sci. Press, vol. 97, p. 873. 1 column. Map
- REPORT ON ORE DEPOSITS OF THE WICHTA MOUNTAINS, OKLAHOMA. By H. F. Bain. U. S. G. S., Professional Paper 31. 97 pages. I. 1904.
- Grahamite Deposits of Southeastern Oklahoma. By J. A. Taff. U. S. G. S., Bull. 380, p. 286. 12 pages. I. 1908.
- OKLAHOMA GYPSUM DEPOSITS E. & M. J., vol. 85, p. 315. ½ column.
- ANALYSES OF CRUDE PETROLEUM FROM OKLAHOMA AND KANSAS. By D. T. Day. U. S. G. S., Bull. 381, p. 494. 10 pages. 1908.

- THE MADILL OIL POOL, OKLAHOMA.

 By J. A. Taff and W. J. Reed U.
 S. G. S., Bull. 381, p. 504 12 pages.
 I 1908
- MINERAL RESOURCES OF NORTHEAST-ERN OKLAHOMA. By C. E. Siebenthal U. S. G. S., Bull. 340, p. 187. 42 pages I 1907
- OKLAHOMA'S NEW ZINC-LEAD DISTRICT. E & M. J, vol 87, p. 496. 2½ columns.
- MIAMI LEAD AND ZINC DISTRICT IN OKLAHOMA By O. Ruhl. E & M. J., vol. 86, p. 910. 8 columns. I.

Oregon

- MINERAL RESOURCES OF THE GRANTS PASS QUADRANGLE AND BORDERING DISTRICTS, OREGON. By J. S Diller and G. F. Kay. U. S G S, Bull. 380, p. 48. 32 pages I. 1908.
- A COAL PROSPECT ON WILLOW CREEK, MORROW COUNTY, OREGON By W. C. Mendenhall U. S. G. S., Bull 341, p. 406. 3 pages. 1907.
- THE ROGUE RIVER VALLEY COAL FIELD, OREGON By J. S. Diller. U. S. G. S., Bull. 341, p. 401. 5 pages. I. 1907.
- CRACKER CREEK DISTRICT, OREGON. By J. T. Pardee. Min. & Sci. Press, vol. 100, p. 585. 3½ columns. I
- FAULTING AND VEIN STRUCTURE IN THE CRACKER CREEK GOLD DIS-TRICT, BAKER COUNTY, OREGON. By J. T. Pardee. U S. G. S., Bull. 380, p. 85. 8 pages. I. 1908.
- THE NORTH POLE MINE, BAKER
 COUNTY, OREGON. By E Melzer.
 E. & M. J., vol. 89, p. 868. 4½ columns. I.
- GOLD MINES IN EASTERN OREGON. Min. & Sci. Press, vol. 101, p. 141. 2½ columns. I.
- RYE VALLEY GOLD MINES, OREGON. By A. Mathez. Min. & Sci. Press, vol. 99, p. 687. 1½ columns. I.

- MINES OF THE RIDDLES QUADRANGLE, OREGON. By J. S. Diller and G. F. Kay. U. S. G. S., Bull. 340, p. 134. 19 pages. I 1907
- Notes on the Bohemia Mining District, Oregon. By D. F. MacDonald. U. S. G. S., Bull 380, p. 80. 5 pages. 1908.
- PLACER GRAVELS OF THE SUMPTER AND GRANITE DISTRICTS, EASTERN ORE-GON. By J T Pardee. U S. G. S, Bull 430, p. 59 7 pages I 1909.
- PLACERS OF WALDO, SOUTH OREGON By J M Nicol Min. & Sci Press, vol. 99, p. 122 2½ columns. I.
- NICKEL DEPOSITS OF NICKEL MOUNTAIN, OREGON. By G. F. Kay. U. S. G. S., Bull. 315, p 120. 8 pages. 1906.
- The Malheur Oil Fields of Oregon. E. & M J, vol 88, p. 512. ½ column.
- PLATINUM AT THE CRACKER JACK MINE, DOUGLAS COUNTY, OREGON. By H. B. Pulsifer. E & M. J., vol. 86, p. 1003. 2½ columns.
- STRUCTURAL MATERIALS IN PARTS OF OREGON AND WASHINGTON By N. H. Darton. U. S. G. S., Bull. 387. 36 pages. I. 1909.
- A TIN DEPOSIT NEAR SPOKANE. By A. R. Whitman Min. & Sci. Press, vol. 95, p. 49 1½ columns. I.

Panama

Mining in Panama. By S. Turner. Min. & Sci. Press, vol. 96, p. 130. 5½ columns. I.

Pennsylvania

- ECONOMIC GEOLOGY OF THE AMITY QUADRANGLE IN EASTERN WASH-INGTON COUNTY, PENNSYLVANIA By F. G. Clapp. U. S. G. S, Bull. 300. 145 pages. I. 1907.
- ECONOMIC GEOLOGY OF THE BEAVER
 QUADRANGLE, PENNSYLVANIA. By
 L. H. Woolsey. U. S. G. S., Bull.
 286. 132 pages I. 1906.

- MINERAL RESOURCES OF THE KITTAN-NING AND RURAL VALLEY QUAD-RANGLES, PENNSYLVANIA. By C. Butts U. S. G. S, Bull. 279. 198 pages. I. 1906.
- MINERAL RESOURCES OF THE ELDERS
 RIDGE QUADRANGLE, PENNSYLVANIA By R. W. Stone U. S G
 S., Bull 256. 86 pages. I 1905.
- Notes on Clays and Shales in Central Pennsylvania. By G H Ashley U S G. S, Bull 285, p 442 2 pages. 1905.
- WHITE CLAYS OF SOUTH MOUNTAIN, PENNSYLVANIA. By G. W. Stose U S. G. S., Bull 315, p 322. 12½ pages. I. 1906.
- CLAYS AND SHALES OF SOUTHWESTERN CAMBRIA COUNTY, PENNSYLVANIA By W. C Phalen and L. Martin. U. S. G. S., Bull. 315, p. 344. 10 pages. 1906.
- CLAYS AND SHALES OF CLARION QUAD-RANGLE, CLARION COUNTY, PENN-SYLVANIA. By E. F. Lines. U. S. G. S., Bull. 315, p. 335. 8 pages. 1906
- A GENERAL VIEW OF THE ANTHRA-CITE COAL REGION OF PENNSYL-VANIA By H. W. Poole. Min. Mag., vol. 4, p. 245. 4 pages.
- THE LACKAWANA COAL BASIN: Its Geology and Mining Resources Around Scranton, Pennsylvania. By H. D. Rodgers. Min. Mag., vol. 2, p. 388, 6 pages; p 475; 15 pages, I; p. 609, 12 pages
- PROPERTY OF THE SHORT MOUNTAIN COAL COMPANY, LYKENS VALLEY, PENNSYLVANIA Min Mag., vol. 1, p. 468. 7½ pages.
- THE SOUTHERN ANTHRACITE COAL-FIELD By J. H. Haertter. E. & M. J., vol. 85, p. 653. 9 columns. I.
- ANTHRACITE COAL MINING. By H. C. Chance. U. S. G. S., Mineral Resources. 1883 and 1884, vol 14.
- COAL MINING IN SOUTHERN ANTHRA-CUTE FIELD. By T. F. Dowing.

- E & M. J, vol 86, p. 475 10 columns. I.
- MOREA COLLIERY BASIN, NORTH-EASTERN PENNSYLVANIA M & M vol. 30. p. 730 1½ columns I.
- THE TUNUNGWANT COAL FIELD OF MCKEAN COUNTY, PENNSYLVANIA By D D Owen Min Mag, vol. 9, p 244, 12 pages; p. 306, 10 pages.
- THE LYCOMING IRON AND COAL COM-PANY, PENNSYLVANIA. Min. Mag., vol 1, p 455 13½ pages.
- THE COAL LANDS OF THE CLINTON COUNTY COAL COMPANY, PENN-SYLVANIA Min. Mag, vol 3, p 513. 5½ pages
- SMITHING COAL OF PENNSYLVANIA. Second Geol. Rept Pa G, p. 202. 10 pages.
- THE SAGMORE BITUMINOUS COAL MINES, CLEARFIELD DISTRICT, PENNSYLVANIA. By E. K. Judd. E & M. J., vol. 85, p. 605. 6 columns. I.
- A TYPICAL RIVER MINE IN PENNSYL-VANIA. By F. W. Parsons. E. & M. J., vol. 89, p. 326. 18 columns. I.
- DONOHOE COKE COMPANY, NEAR GREENSBURG, PENNSYLVANIA By C. R. King M & M, vol. 29, p. 445. 7½ columns. I
- BUFFALO-SUSQUEHANNA SAGAMORE MINE By R. D. N. Hall M. & M., vol. 31, p. 645. 8½ columns I.
- THE JENNER MINE OF THE SOMERSET COAL COMPANY, PENNSYLVANIA. By J. L. Wagner. M. & M., vol. 29, p. 323 2½ columns. I.
- COAL RESOURCES OF JOHNSTOWN, PENNSYLVANIA, AND VICINITY BY W. C. Phalen. U. S. G. S., Bull 316, p. 20. 22 pages. I. 1906.
- COALS OF THE CLARION QUADRANGLE, CLARION COUNTY, PENNSYLVANIA. By E. F. Lines U. S. G. S., Bull. 316, p 13. 9 pages. I. 1906.
- THE PUNKSUTAWNEY AND GLEN CAMP-BELL COAL FIELDS OF INDIANA AND JEFFERSON COUNTIES, PENNSYL-

- VANIA. By F B Peck and G H. Ashley U S G. S, Bull 285, p. 276. 4 pages. 1905.
- CLEARFIELD COAL FIELD, PENNSYL-VANIA. By G H Ashley. U. S. G. S., Bull. 285, p. 271. 5 pages. I. 1905
- THE MARIANNA COAL MINES. By H. M. Phelps. M & M, vol 31, p. 523. 73 columns. I
- THE COPPER DEPOSITS OF SOUTH MOUNTAIN IN SOUTHERN PENN-SYLVANIA. By G. W Stose U. S. G. S., Bull. 430, p. 122 10 pages. I. 1909.
- Ganister in Blair County, Pennsylvania By C. Butte. U. S. G. S, Bull. 380, p. 337. 5 pages 1908.
- Gravel and Sand in the Pittsburg District, Pennsylvania. By E. W Shaw. U. S. G. S., Bull. 430, p 388. 12 pages. I. 1909.
- MAGNETITE DEPOSITS OF THE CORNWALL TYPE IN PENNSYLVANIA. By A. C. Spencer. U. S. G. S., Bull. 359, 102 pages. I. 1908
- MAGNETITE DEPOSITS OF THE CORNWALL TYPE IN BERKS AND LEBANON COUNTIES, PENNSYLVANIA. By A. C. Spencer. U S. G. S., Bull 315, p 185. 4½ pages. 1906.
- THE JAUSS IRON MINE, DILLSBURG, PENNSYLVANIA. By A C. Spencer. U. S. G. S, Bull. 430, p. 247. 3 pages. 1909.
- THE CLINTON IRON-ORE DEPOSITS IN THE STONE VALLEY, HUNTINGDON COUNTY, PENNSYLVANIA By J. J. Rutledge. T A. I M. E., vol 40, p. 134. 30 pages. I
- Deposits of Brown Iron Ore Near Dillsburg, York County, Pennsylvania By E. C. Harder. U. S. G. S., Bull. 430, p. 250. 5½ pages. 1909.
- THE MINERAL-PAINT ORES OF LEHIGH GAP, PENNSYLVANIA. By E. C. Eckel. U. S. G. S., Bull. 315, p. 435. 3 pages. 1906.

- PAINT-ORE DEPOSITS NEAR LEHIGH GAP, PENNSYLVANIA. By F. T. Agthe and J. L. Dynan U. S. G. S., Bull. 430, p. 440. 14 pages. I. 1909.
- OCHER DEPOSITS OF EASTERN PENN-SYLVANIA. By J C. Stoddard and A C. Callen. U. S. G. S., Bull. 430, p. 424. 15 pages I. 1909.
- LIMESTONES OF SOUTHWESTERN PENN-SYLVANIA. By F. G. Clapp. U. S. G. S., Bull. 249. 52 pages. I. 1905.
- THE NINEVEH AND GORDON OIL SANDS IN WESTERN GREENE COUNTY, PENNSYLVANIA. By F. G. Clapp. U S. G. S., Bull. 285, p. 362. 4½ pages. 1905.
- Phosphodous Ore at Mount Holly Springs, Pennsylvania. By G. W. Store. U. S. G. S., Bull 315, p. 474. 9 pages. 1906.

Peru

- PROGRESS IN PERU. By L W. Strauss. Min. Mag., vol. 4, p. 216. 4 columrs. Map.
- THE PHYSICAL FEATURES AND MINING INDUSTRY OF PERU. By G. T. Adams. T. A. I M. E., vol. 39, p. 250. 10 pages. I.
- The Mining Districts of Central Peru. By J. C. Pickering. E. & M. J., vol. 85, p. 997. 14½ columns. I.
- THE PHYSICAL FEATURES AND MINING INDUSTRY OF PERU. By G. I. Adams. T. A. I. M. E, vol. 39, p. 250. 10 pages. I.
- BIBLIOGRAPHY OF LITERATURE ON MINING IN PERU. T. A. I. M. E., vol. 39, p. 258. 2 pages.
- THE COAL DEPOSITS OF PERU. By Z. C. B. Borlkjof. E. & M. J., vol. 88, p. 983. 12 columns.
- BEDDED GOLD QUARTZ VEINS NEAR POTO, PERU. By E. C. Thurston. E. & M. J., vol. 90, p. 597. 31 columns. I.

- PERUVIAN PLACER MINES. Min. & Sci. Press, vol 101, p. 741. 7 column.
- SAN ANTONIO DE POTO HYDRAULIC MINE, PERU. By W E. G Firebrace. Min & Sci. Press, vol. 97, p. 780. 4 columns. I
- Andean Placers, Peru and Bolivia. Min. & Sci. Press, vol. 99, p 61. 1 column.
- QUICKSILVER AT HUANCAVETICA, PERU By L W. Strauss Min. & Sci. Press, vol 99, p. 561. 11½ columns I.
- THE CERRO DE PASCO MINING DISTRICT, PERU. By C. C. Sample. E. & M. J, vol 85, p. 155 11 columns. I.
- NITRATE OF SODA: Its Abundance in South Peru. Min. Mag., vol. 3, p. 499. 7 pages.
- Vanadium in Peru. By S. Jochamowitz. E. & M. J, vol. 87, p. 996. † column.
- Vanadium Deposits in Peru. By D F Hewett. Min. & Sci. Press, vol. 98, p. 619. 5½ columns.
- Vanadium-Deposits in Peru. By D. F. Hewett. T. A. I. M. E., vol. 40, p. 274. 25½ pages. I.; Discussion, p. 861, 2½ pages.

Philippine Islands

- METALLIC MINERAL RESOURCES OF THE PHILIPPINES. By M. Goodman. E. & M. J., vol. 86, p. 706. 3½ columns.
- PHILIPPINE COAL MINES. Min. & Sci. Press, vol. 100, p. 323. 2 columns.
- Mining Coal in the Philippine Is-Lands. By R. Hawkhurst. E. & M. J., vol. 88, p. 879. 4 columns.
- PHILIPPINE COALS. By A. J. Cox. E. & M. J., vol. 86, p. 1058. 4 columns.
- PHILIPPINE COAL FIELDS. By J. B. Dilworth. T. A. I. M. E., vol. 39, p. 653. 11 pages. I.

- COPPER IN THE PHILIPPINES. By W. D Smith. E & M. J., vol. 89, p. 30. 1 column.
- THE PHILIPPINE GOLD MINES By M. Woolley M. & M, vol. 31, p 464. 4 columns. I
- Gold in the Philippines. By H. G. Ferguson. E & M. J, vol 88, p. 1165. 5 columns. I.
- Arorov District, Masbate, Philippine Islands. Min. & Sci Press, vol. 100, p. 388. 3 columns.
- PARACALE AND MAMBULAO DISTRICTS. By W. D. Smith Min. & Sci Press, vol. 100, p. 453. 4 columns.
- PETROLEUM AND NATURAL GAS IN THE PHILIPPINES By W. D Smith. E. & M. J., vol. 88, p 1285. 1½ columns
- PHOSPHATE DEPOSITS IN THE PHILIP-PINES U. S. G. S. 21st Ann Rept., pt. 3. 644 pages. 1899–1900. I.

Portugal

PORTUGUESE MINING NOTES. By C. L Major. E. & M. J., vol. 88, p 322. 12 columns. I.

Rhode Island

- A GEOGRAPHIC DICTIONARY OF RHODE ISLAND. By H. Gannett. U. S. G S., Bull. 115. 31 pages 1894.
- THE COAL FIELDS OF BRISTOL COUNTY AND OF RHODE ISLAND. By E. Hitchcock. Min. Mag., vol. 1, p. 582. 10 pages.

Russia

- Siberian Impressions. By H. G. Nichols. Min. Mag., vol. 4, p. 132. 9 columns. I.
- NATIVE METHODS IN SIBERIA. By F. L. Lowell. Min. & Sci. Press, vol. 101, p. 600. 4½ columns. I.
- MINING IN SIBERIA. E. & M. J., vol. 88, p. 172. 2½ columns.
- THE BOGOSLOOSK MINING ESTATE. By W. H. Shockley. T. A. I. M. E., vol. 39, p. 274. 29 pages. I.

- THE BOGOSLOOSK MINING ESTATE.

 DISCUSSION of the paper of W. H.

 Shockley, p. 274. T. A. I. M. E.,

 vol 39, p. 897. 1½ pages.
- COAL MINING ON THE KIRGHESE STEPPE, IN THE AKMOLINSK DISTRICT OF SOUTH-WESTERN SIBERIA By E. Watson T. I M. E., vol. 37, p. 124 10 pages. I.
- THE ATBASAR COPPER DISTRICT By W. Pellew-Harvey. Min. Mag., London, vol. 2, p 59. 8 columns. I.
- Notes on the Zangezour Copper Mines. By A L Simon T. I. M. & M., vol. 18, p. 413 12 pages.
- Russian Far Eastern Gold Field. M. & M., vol 31, p. 447. 2 columns.
- GOLD MINING IN SIBERIA. Min. & Sci. Press, vol. 20, p. 394. 13 columns.
- GOLD AND OTHER MINERALS OF EAST-ERN SIBERIA. By S. F. G. White. E. & M. J, vol 87, p. 1034. 4½ columns.
- MINING IN SIBERIA. By C. W. Purington. Min. & Sci. Press, vol. 98, p 251 3 columns.
- KOLCHAN PLACER OF THE ORSK GOLD-FIELDS, LTD By C. W. Purington. E. & M. J., vol. 90, p. 1202. 5½ columns
- MANGANESE MINING IN THE CAUCA-SUS. By A. Muls. Min. Mag., London, vol. 2, p. 439. 4 columns.
- Russian Platinum and Foreign Companies in Russia. By V. X. Prardinsky. E. & M. J., vol. 89, p. 1025. 5\frac{1}{2} columns.
- RUSSIAN PLATINUM DEVELOPMENTS.

 M & M., vol 30, p 400. 2 columns.
- RECENT PROGRESS AT MAIKOP: A Russian Oil Field. By T. J. Hoover. Min. Mag., vol. 4, p. 298. 3 columns. I.
- PROBLEMS OF THE RUSSIAN OIL IN-DUSTRY. By F. Richards. E. & M J., vol. 88, p. 69. 4 columns.

- Russian Petroleum. M. & M., vol. 30, p. 655. 3 columns.
- OILFIELDS OF SAKHALIN. By C. E. Pfaaffins. Min Mag., London, vol. 3, p. 447. 2 columns
- MAIKOP OIL-FIELD By A. B Thompson Min Mag, London, vol. 2, p 277. 7½ columns. I.
- THE SALT MINING INDUSTRY IN THE RUSSIAN EMPIRE By F. Thiess. T I. M. E., vol 37, p. 702. 1½ pages
- THE TYNTICHA ZINC MINE, SIBERIA. By C. W. Purington. Min. & Sci. Press, vol. 99, p. 200. 1½ columns

Spain

- Cinnabar in Spain Min. Mag., vol. 7, p. 150. 4½ pages.
- THE RIO TINTO COPPER DISTRICT. By J. W. Gregory. T. Au. I. M. E, vol. 10, p. 165. 14 pages. I.
- PRODUCTION OF IRON ORE IN SPAIN. By H. A. McBride. M. & M, vol. 31, p. 577. 6½ columns. I.

Sweden

- THE GEOLOGICAL RELATIONS OF THE SCANDINAVIAN IRON-ORE. By H. Sjogren. T. A. I. M. E., vol. 38, p. 766. 69 pages I.
- Mining Coal in Spitzbergen, Norway. By T Collot. E & M. J, vol. 88, p. 1274. 2 columns. I.

Tasmania

- Tin Deposits of Tasmania M. & M., vol. 31, p. 309. 4 columns. I.
- Notes on the Zeehan Mining Field, Tasmania. By S. W. Wilhams E & M. J., vol. 89, p. 713. 72 columns. I.
- TIN MINING IN TASMANIA. By J B. Lewis E. & M J., vol. 85, p. 485. 12½ columns. I
- MOUNT BISCHOFF OF TASMANIA. By F. H. Bathurst. Min. Mag., London, vol. 3, p. 195. 10 columns. I.

- Gravel Mining in Tasmania Min. Mag., London, vol. 3, p. 383. 12 columns. I.
- An Extensive Iron Formation, West Coast of Tasmania. By D. Jones. T. Au. I. M. E, vol. 5, p. 117. 6 pages.

Tennessee

- CEMENT RESOURCES OF THE CUMBER-LAND GAP DISTRICT, TENNESSEE-VIRGINIA. By E. C. Eckel U. S. G. S, Bull. 285, p. 374. 2½ pages. 1905.
- CLAYS OF WESTERN KENTUCKY AND TENNESSEE. By A. F. Crider. U. S. G. S., Bull. 285, p. 417. 11 pages. I. 1905.
- THE CLAYS OF TENNESSEE. By G. H. Ashley. Min. & Sci. Press, vol. 101, p 712. 1½ columns.
- THE WIND ROCK COAL MINE, TENNESSEE By W. S. Hutchinson. M. & M., vol 31, p. 1. 6 columns. I.
- COAL IN TENNESSEE. Min. Mag., vol. 8, p 450. 10 pages.
- THE CUMBERLAND COAL FIELDS, TENNESSEE By J. P. Listey. Min. Mag, vol 5, p. 45. 13 pages. I.
- Ducktown Copper Deposit, Tennessee By J. W Gregory. T. Au. I. M. E., vol. 10, p. 182 3½ pages.
- COPPER REGION OF TENNESSEE. A Sketch of the Geology of Tennessee. By R. O. Currey. Min. Mag, vol. 8, p. 156. 7 pages.
- GOLD AND SILVER IN TENNESSEE. Min. Mag, vol. 8, p. 237. 4½ pages.
- Tonnage Estimates of Clinton Iron Ore in the Chattanooga Region of Tennessee, Georgia, and Alabama. By E. F. Burchard. U. S. G. S., Bull. 380, p. 169. 20 pages, 1908.
- IRON OPERATIONS IN THE CHATTA-NOOGA DISTRICT. By E. Higgins. E. & M. J., vol. 87, p. 1. 15 columns. I.

- CONDITION OF THE PHOSPHATE INDUSTRY IN TENNESSEE. By H D. Ruhm E. & M. J., vol. 89, p. 180. 3 columns
- PHOSPHAT MINING IN TENNESSEE.

 By H. D. Ruhm E. & M J, vol.

 85, p 153. 3½ columns. I.
- PHOSPHATE MINING IN TENNESSEE.

 By H. D Ruhm. E. & M J, vol.

 85, p 404 2 columns.
- PHOSPHATE MINING IN TENNESSEE. By H. D. Ruhm. E. & M. J., vol. 85, p. 573. 2 columns.
- PHOSPHATE ROCK IN TENNESSEE. By H. D. Ruhm E. & M. J., vol 85, p. 1150 2½ columns.
- THE EAST TENNESSEE ZINC MINING DISTRICT. By S W. Osgood E. & M. J., vol. 87, p. 401. 9½ columns. I.
- CHARACTER OF ORE IN THE EAST TENNESSEE ZINC DISTRICT. E & M J, vol. 87, p. 402. ½ column.

Texas

- A GAZETTEER OF TEXAS. By H. Gannett. U. S. G. S., Bull. 190, 162 pages, I, 1902; Bull. 224, 177 pages, I., 1904.
- NORTHWEST BOUNDARY OF TEXAS. By M. Baker. U. S. G. S., Bull. 194. 51 pages. I. 1902
- PORTLAND CEMENT MATERIALS NEAR ELPASO, TEXAS. By G. B. Richardson. U. S. G. S., Bull. 340, p. 411. 4 pages. 1907.
- MINERALS OF THE RARE-EARTH METALS AT BARINGER HILL, LLANO COUNTY, TEXAS. By F. L. Hess. U. S. G. S., Bull. 340, p. 286. 8 pages. 1907.
- PRELIMINARY REPORT ON PRE-CAMBEIAN GEOLOGY AND IRON ORES OF LLANO COUNTY, TEXAS. By S. Paige. U. S. G. S., Bull. 430, p. 256. 12 pages. 1909.
- STRUCTURAL MATERIALS AVAILABLE IN THE VICINITY OF AUSTIN, TEXAS. By E. F. Burchard. U. S. G. S., Bull. 430, p. 292. 24 pages. 1909.

- CONDITION OF THE QUICKSILVER INDUSTRY IN TEXAS By W. B. Phillips E & M. J, vol 88, p 1022. 8 columns.
- MERCURY MINERALS FROM TERLINGUA, TEXAS. By W. F. Hillsbrand and W. T Schaller U. S G. S, Bull. 405. 174 pages. I. 1909.
- THE PRESIDIO-SILVER MINES, SHAF-TER, TEXAS By M P. Kirk. E. & M. J., vol. 88, p. 818. 4½ columns. I.
- SHAFTER SILVER DISTRICT, PRESIDIO COUNTY, TEXAS. By W B. Phillips. E. & M J., vol. 90, p. 1303. 62 columns. I
- Texas Celestite Deposits. By F. L. Hess. E. & M. J., vol 88, p. 117. 2½ columns. I.
- FRANKLIN MOUNTAIN TIN PROSPECTS. By R. Chauvenet. M. & M., vol. 30, p. 529. 4½ columns.

Turkey

- MINERAL RESOURCES OF THE TURKISH EMPIRE. By L Dominian. Mm. & Sci Press, vol 98, p. 821. 10 columns. Map.
- MINERAL DEPOSITS IN TREBIZOND, TURKEY. Min & Sci. Press, vol. 99, p 299. 1½ columns. I.
- COAL IN TURKEY. Min. & Sci. Press, vol. 98, p. 821. 3 columns.
- COPPER IN TURKEY. Min. & Sci. Press, vol. 98, p. 824 1 column.
- GOLD AND SILVER IN TURKEY. Min. & Sci. Press, vol. 98, p. 823. 1 column.
- Iron in Turkey. Min. & Sci. Press, vol. 98, p. 823. ½ column.
- LEAD IN TURKEY. Min. & Sci. Press, vol. 98, p. 823. 1 column.
- MERCURY IN TURKEY. Min. & Sci. Press, vol. 98, p. 826. 1 column.

United States (General)

A DICTIONARY OF GEOGRAPHIC POSITIONS. By H. Gannett. U. S. G. S., Bull. 123. 183 pages. I. 1895.

- Areas of the United States, the States and the Territories. By H. Gannett. U S. G. S., Bull 302. 9 pages. I. 1906.
- DISTRIBUTION OF THE NATION'S MINERAL WEALTH By G. O. Smith. Min. & Sci. Press, vol. 97, p 880. 2 columns.
- THE MINES AND MINERAL RESOURCES OF AMERICA. Min Mag, vol 1, p 23, 3 pages; p 109, 5 pages; p. 232, 2½ pages, p 347, 2½ pages; p. 489, 5½ pages.
- THE MINERAL WEALTH OF THE COR-DILLERAS. By R W Raymond and W. R Ingalls. E & M. J., vol. 88, p. 678. 7½ columns.
- MINERAL RESOURCES OF THE UNITED STATES. Min & Sci Press, vol. 96, p. 138 2 columns.
- Some Remarks on the Metallic Wealth of the United States, Described and Compared with Other Countries Min Mag., vol. 3, p. 471. 5 pages
- BORAX-DEPOSITS OF THE UNITED STATES By C R. Keys. T. A. I. M. E, vol 40, p. 674. 36½ pages. I. Discussion, p. 909. 6 pages.
- See also Miscellaneous Districts.
- THE COAL-FIELDS OF THE UNITED STATES. By M. R. Campbell and E. W. Parker. T. A. I. M. E, vol. 40, p. 253. 8 pages.
- THE COALFIELDS OF THE UNITED STATES. E. & M. J., vol. 87, p. 160. 8 columns. I.
- PACIFIC COAST COALS Min. & Sci. Press, vol 22, p. 216. ½ column.
- ANTHRACITE COAL ON THE PACIFIC COAST. E & M. J., vol 90, p. 920. 1 column. I.
- COAL MINING IN THE MIDDLE WEST By G. H. Cushing. Min. & Sci. Press, vol. 100, p. 130. 3½ columns.
- FUEL IN THE INTERMOUNTAIN REGION. By D. Harrington. M. & M., vol. 29, p. 493. 4½ columns.

- THE BARREN ZONE OF THE NORTHERN APPALACHIAN COALFIELD By I. C. White. E. & M. J, vol 87, p. 509 13 columns.
- THE NORTHERN APPALACHIAN COAL-FIELD. By R. N. Hosler E. & M. J., vol 89, p. 1122. 8½ columns.
- THE COAL-FIELDS OF THE UNITED STATES. By M. R. Campbel and E. W. Parker. T. A. I. M. E., vol. 40, p. 253. 8 pages.
- THE PROSPECTS OF THE LAKE SU-PERIOR MINING REGION. By W. H. Stevens. Min. Mag., vol. 2, p. 149 4 pages.
- THE COPPER VEINS OF THE SOUTH-By O M. Lieber. Min. Mag, vol. 7, p. 367. 4 pages.
- COPPER DEPOSITS IN THE WESTERN FOOTHILLS OF THE SIERRA NEVADA. By W. Forstner. Min. & Sci Press, vol. 96, p. 743. 10% columns. I.
- SEARCH FOR DIAMONDS ON THE PACIFIC COAST. Min. & Sci. Press, vol. 22, p. 358 1 column.
- ECONOMIC GEOLOGY OF THE FELDSPAR DEPOSITS OF THE UNITED STATES. By E S Bastin. U. S G. S., Bull. 420. 85 pages I. 1910
- GLASS SAND OF THE MIDDLE MISSISSIPPI BASIN. By E. F. Burchard. U. S. G. S., Bull. 285, p. 459. 14 pages. 1905.
- RECONNAISSANCE OF SOME GOLD AND TIN DEPOSITS OF THE SOUTHERN APPALACHIANS By L C. Graton. U. S. G. S., Bull. 293. 134 pages. I. 1906.
- EXAMINATIONS AND EXPLORATIONS ON THE GOLD-BEARING BELTS OF THE ATLANTIC STATES. Min. Mag., vol. 2, p. 378, 10½ pages, I.; vol. 3, p. 161, 7½ pages.
- Granities of the Southeastern At-Lantic States. By T. L. Watson. U.S. G.S., Bull. 426. 282 pages. I.
- THE FLAKE GRAPHITE INDUSTRY IN THE UNITED STATES. By F. D. Chester. E. & M. J., vol. 88, p. 785. 2 columns.

- IRON ORE SUPPLY OF THE UNITED STATES By C. W. Hayes. Min. & Sci. Press, vol. 98, p. 798. 3 columns.
- IRON OCCURRENCES IN THE EASTERN HALF OF THE UNITED STATES E. & M J., vol. 90, p 206 2½ columns. Map
- IRON ORES EAST OF THE MISSISSIPPI RIVER. By J. Birkinbine U. S G. S., Mineral Resources, 1886, vol. 8. 65 pages
- CHRONOLOGY OF LEAD-MINING IN THE UNITED STATES By W. R. Ingalls. T. A I. M. E., vol. 38, p 644. 12 pages.
- THE GEOLOGY OF THE UPPER MISSISSIPPI LEAD REGION. By J V. Phillips. Min. Mag., vol. 2, p. 129. 9½ pages. I.
- GEOGRAPHIC DISTRIBUTION OF LEAD AND ZINC DEPOSITS OF THE MIS-SISSIPPI VALLEY. By C. R. Keyes. E. & M. J., vol. 86, p. 1004. 3 columns.
- MANGANESE DEPOSITS OF THE UNITED STATES. By E. C. Harder. U. S G. S, Bull. 380, p. 255. 22 pages. I. 1908.
- MANGANESE DEPOSITS OF THE UNITED STATES, WITH SECTIONS ON FOREIGN DEPOSITS, CHEMISTRY AND USES. By E. C Harder. U. S. G. S, Bull. 427. 208 pages I.
- See also Miscellaneous Districts.
- U.S. G. S., Mineral Resources, 1882, vol. 17. 13 pages.
- USEFUL MINERALS IN UNITED STATES. By A. Williams. U. S. G. S., Mineral Resources, 1887. 125 pages.
- MINOR MINERALS OF PACIFIC COAST. By C. G. Yale. U. S. G. S., Mineral Resources, 1882, vol. 17. 2 pages.
- PEAT. By H. H. Hindshaw. U. S. G. S., Mineral Resources, 1904.
- PEAT DEPOSITS. By N. S. Shaler. U. S. G. S., 16th Ann. Rept., pt. 4. 9 pages.

- OIL INDUSTRY OF THE UNITED STATES Min. & Sci Press, vol. 96, p 202 5% columns
- THE PETROLEUM FIELDS OF THE UNITED STATES. By W. G. Burroughs. E & M J., vol. 89, p 921. 11 columns I
- PHOSPHATE DEPOSITS OF UNITED STATES. By F. B. Van Horn. Min. & Sci Press, vol. 99, p. 88. 5 columns.
- PHOSPHATE DEPOSITS IN WESTERN UNITED STATES. By F. B. Weeks and W F. Ferrier. U. S. G S., Bull. 315, p. 449. 14 pages. I. 1906.
- PHOSPHATE DEPOSITS IN THE WESTERN UNITED STATES By F. B. Weeks. U S. G. S., Bull 340, p. 441. 6½ pages. 1907.
- See also MISCELLANEOUS DISTRICTS.
- PLATINUM IN THE UNITED STATES By D T. Day. Min. & Sci Press, vol. 100, p. 582. ½ column.
- THE PACIFIC COAST BEACH SANDS. By C. Bartlett. M. & M., vol. 30, p. 375. 3½ columns.
- USEFUL MINERALS IN BLACK SANDS OF PACIFIC COAST. By D. T. Day and R. H. Richards. U. S G S., Mineral Resources, 1905. 73 pages.
- SILVER-LEAD MINES OF THE UNITED STATES. E. & M. J., vol. 85, p. 374. 1 column.
- THE PRODUCTION OF SLATE IN THE UNITED STATES. Min. & Sci. Press, vol. 95, p. 467. ½ column.
- FIELD-INVESTIGATIONS OF STRUCTURAL MATERIALS BY THE U. S. GEOLOGICAL SURVEY. By E. F. Burchard. T. A. I. M E., vol 41, p 490. 4½ pages.
- A New Source of Supply of Sulphur. T. A. I. M. E., vol. 39, p. 522. 18 pages. I.
- Tin Deposits of the Southern Appalachians. By L. C. Graton. U. S. G. S., Bull. 293. 134 pages. I. 1906.
- See also MISCELLANEOUS DISTRICTS.

Utah

- A GAZETTEER OF UTAH. By H. Gannett U S. G. S., Bull. 166. 43 pages. Map 1900
- MINERAL RESOURCES OF UTAH By R. H Bradford Min & Sci Press, vol 98, p 187. 5½ columns Map.
- Antimony in Southern Utah. By G. B. Richardson. U. S. G. S., Bull. 340, p. 253 4 pages 1907.
- Arsenic Manufacture at Midvale, Utah By L A. Palmer. M & M, vol 30, p. 641 7 columns I.
- COAL BEDS OF PLEASANT VALLEY, UTAH E. & M. J., vol 85, p. 964 † column
- THE PLEASANT VALLEY COAL DISTRICT, CARBON AND EMERY COUNTIES, UTAH By J A. Taff. U. S. G S., Bull 316, p 338. 21 pages. I 1906
- COAL FIELDS OF NORTHWESTERN COLO-RADO AND NORTHEASTERN UTAH. By H S Gale U. S. G. S, Bull. 341, p. 283 35 pages. I. 1907
- COAL FIELDS OF NORTHWESTERN COLO-RADO AND NORTHEASTERN UTAR By H. S. Gale. U. S. G. S., Bull. 415. 265 pages. I. 1910.
- Notes on the Weber River Coal Field, Utah. By J. A. Taff. U. S. G. S., Bull. 285, p. 285. 4 pages. 1905.
- COAL IN SAMPETE COUNTY, UTAH. By G. B. Richardson. U. S. G. S., Bull. 285, p. 280 7 pages. I. 1905.
- THE HOMINY, COLOB, AND KANAB COAL FIELDS, SOUTHERN UTAH. By G B. Richardson. U. S. G. S., Bull. 341, p. 379. 22 pages. I. 1907.
- BOOK CLIFFS COAL FIELD, UTAH, WEST OF GREEN RIVER. By J. A. Taff. U. S G. S., Bull. 285, p. 289. 14 pages. I. 1905.
- CONSOLIDATED FUEL COMPANY, UTAH. By R J. Turner. M. & M., vol. 31, p. 385. 4 columns. I.
- THE UTAH COPPER MINE. By C. De Kalb. Min. & Sci. Press, vol. 98, p. 516. 9½ columns. I.

- OPERATIONS OF THE UTAH COPPER COMPANY DURING 1908 By D C. Jackling. E. & M. J., vol. 87, p. 1185 11½ columns. I.
- THE SOUTH UTAH MINE AND MILL. By L A Palmer. M. & M., vol. 31, p. 592 81 columns. I.
- THE BOSTON CONSOLIDATED MINING COMPANY, UTAH. E. & M. J., vol. 85, p. 257. 3 columns.
- BOSTON CONSOLIDATED, BINGHAM, UTAH. By C. De Kalb. Min. & Sci Press, vol. 98, p. 553 7 columns I.
- ORE OCCURRENCE AT FORTUNA MINE, BINGHAM, UTAH. By E. R. Zalinski E. & M. J., vol. 86, p. 1191. 14 columns. I.
- AMATRICE, A NEW GEM STONE OF UTAH By E. R. Zalinski. E. & M. J., vol. 87, p 1038. 6 columns.
- MINING IN THE TINTIC DISTRICT OF Utah. By L. A. Palmer. M. & M., vol. 31, p. 553. 8 columns. I.
- MINES AND MILL OF THE CONSOLI-DATED MERCUR COMPANY. By R. H. Allen. E & M. J, vol. 89, p. 1273. 13½ columns. I.
- Supposed Deposits of Graphite Near Brigham, Utah. By H. S. Gale. U. S. G S., Bull. 430, p. 639. 2 pages. 1909.
- THE IRON COUNTY COAL FIELD, UTAH. By W. T. Lee. U. S. G. S., Bull. 316, p. 359. 20 pages. I. 1906
- The Iron Ores of the Iron Springs District, Southern Utah. By C. K. Leith. U. S. G. S., Bull. 338, 102 pages I. 1908
- MARBLE OF WHITE PINE COUNTY, NE-VADA, NEAR GANDY, UTAH By N. H. Darton. U. S. G. S., Bull. 340, p. 377. 3 pages. 1907.
- OZOKERITE IN UTAH. By H. W. Mac-Farren. Min. & Sci. Press, vol. 99, p. 789. 2½ columns. I.
- OZOKERITE DEPOSITS IN UTAH. By J. A Taff and C. D. Smith. U. S. G. S., Bull. 285, p. 369. 4 pages. 1905.

- PETROLEUM IN SOUTHERN UTAH By G. B. Richardson. U. S. G. S, Bull. 340, p. 343. 5 pages. 1907.
- THE NEW OILFIELD IN UTAH. By A. P. Rogers E. & M. J., vol. 87, p. 989. 2½ columns. I.
- PHOSPHATE DEPOSITS EAST OF OGDEN, UTAH. By E. Blackwelder. U. S. G. S., Bull. 430. p. 536. 15 pages I. 1909
- PARK CITY, UTAH Min. & Sci. Press, vol 100, p 793 4 columns I.
- THE COVE CREEK SULPHUR BEDS, UTAH By W. T. Lee. U S. G S., Bull. 315, p. 485. 5 pages. 1906.

Venezuela

- Petroleum in Venezuela E & M. J., vol. 90, p. 506. 1²/₄ columns.
- PETROLEUM INDUSTRY, VENEZUELA.

 M. & M, vol. 31, p. 158. 1½ columns
- THE GRAN PROBRE SILVER MINE IN VENEZUELA. By C. Kissler. Min. Mag., vol. 2, p. 121. 4 pages.

Vermont

- THE GRANITES OF VERMONT. By T. N Dale. U. S. G. S., Bull. 404. 138 pages. I. 1909.
- THE SLATE QUARRIES OF VERMONT. By C. S. Richardson. Min. Mag., vol. 2, p. 271. 12 pages.
- TALC AND SOAPSTONE IN VERMONT. By G. H. Perkins. E. & M. J., vol. 86, p. 753. 2²/₂ columns.

Virginia

- GAZETTEER OF VIRGINIA. By H. Gannett. U. S. G. S., Bull. 232. 159 pages. 1904.
- THE VIRGINIA BARITE-DEPOSITS. By T. L. Watson. T. A. I. M. E., vol. 38, p. 710. 24 pages. L.
- THE POCKET COAL DISTRICT, VIRGINIA, IN THE LITTLE BLACK MOUNTAIN COAL FISLD. By C. A. Fisher. U. S. G. S., Bull. 341, p. 409, 10 pages. I. 1907.

- THE RUSSELL FORK COAL FIELD, VIRGINIA. By R. W. Stone U. S. G. S., Bull. 316, p. 55 14 pages. I. 1906.
- Salt and Gypsum of the Preston Valley of the Holston River, Virginia. By H D. Rogers Min. Mag., vol. 4, p. 28 7 pages.
- THE IRON ORES OF THE APPALACHIAN REGION IN VIRGINIA. By E. C. Harder. U. S G. S, Bull. 380, p. 215. 40 pages. I. 1908
- THE PRIDEVALE IRON COMPANY'S MINES, VIRGINIA. By W. B. Rogers. Mm Mag, vol. 3, p. 489. 8½ pages; vol. 5, p. 397. 14 pages. I Map.
- MANGANESE DEPOSITS OF VIRGINIA. By S M Ball. E & M. J., vol. 87, p. 1056. 1½ columns.
- MANGANESE DEPOSITS OF THE BLUE RIDGE, VIRGINIA By L. G. Lockey. E & M. J., vol. 89, p. 867. 1 column.
- NICKEL IN SOME VIRGINIA IRON-ORES. T. A. I. M. E., vol. 39, p. 547. 2 pages.
- THE OCCURRENCE OF NICKEL IN VIRGINIA. By T. L Watson. T. A. I. M. E, vol. 38, p. 683. 16 pages. I.
- THE VIRGINIA RUTILE DEPOSITS BY T. L. Watson and S. Taber. U. S. G S, Bull. 430, p. 200. 14 pages. I. 1909.
- RUTILE DEPOSITS OF VIRGINIA. Min. & Sci. Press, vol. 98, p. 896. 1½ columns.
- SALT OF THE PRESTON VALLEY, VIRGINIA. By H. D. Rogers. Min. Mag., vol. 4, p. 28. 7 pages.
- IRON AND ZINC IN SOUTHWESTERN VIRGINIA. E. & M. J., vol. 86, p. 908. 3 columns. I.
- LEAD AND ZINC ORES OF VIRGINIA. ByM. M. Caldwell. M. & M., vol. 30,p. 269. 2 columns.

Washington

CEMENT RESOURCES OF WASHINGTON. By H. Landes. U. S. G. S., Bull. 285, p. 377. 8 pages. 1905.

- THE COAL RESOURCES OF WASHINGTON. By R P. Tarr. M. & M, vol. 30, p. 17, 6 columns, I.; p. 108, 6 columns, I; p. 155, 7 columns I, p. 311, 8 columns, I.
- MINES IN REPUBLIC DISTRICT, WASH-INGTON By W A Scott. Min & Sci Press, vol. 101, p 200 4 columns. I.
- GOLD-BEARING RIVER SANDS OF NORTH-EASTERN WASHINGTON. By A J. Collier U. S G. S., Bull 315, p. 56. 15 pages. 1906
- Tin Ore at Spokane, Washington. By A J Collier. U. S G. S, Bull. 340, p 295 12 pages I. 1907.
- Tungsten Ore in Washington. By A Wolf. M. & M, vol. 31, p. 307. 2 columns.
- Notes on Tungsten Deposits Near Deer Park, Washington. By H. Bancroft. U. S. G. S., Bull. 430, p. 214. 3 pages. 1909.

West Indies

- A GAZETTEER OF CUBA By H. Gannett U S. G. S, Bull. 192. 113 pages. I. 1902.
- A GAZEFFEER OF PORTO RICO. By H. Gannett. U. S. G. S., Bull. 183. 51 pages. 1901.
- MINING IN THE PROVINCE OF ORIENTE, CUBA. By W. T. Grey. E. & M. J., vol. 89, p. 1235. 1 column.
- Notes on Some Ore Deposits of Porto Rico. By S. H. Hamilton. E. & M. J., vol. 88, p. 518. 4 columns. I.
- HISTORY OF GOLD MINING IN PORTO RICO. Min. & Sci. Press, vol. 97, p 96, 5½ columns; p. 126, 7½ columns. I.
- MANJAK AS WORKED AT THE VISTA-BELLA MINE, TRINIDAD. By J. C. T. Raspass. T I. M. E., vol. 36, p. 119. 5 pages.
- Barite Associated with Iron-Ore in Pinar del Rio Province, Cuba. By C. Catlett. T. A. I. M. E., vol 38, p. 358. 12 pages.

- CHARACTER OF THE CUBAN COPPER MINES. J. C. M. I, vol 13, p. 97. 2½ pages.
- "Two Cuban Mines": Copper By B.B Lawrence. J.C. M. I., vol 13, p 91. 18 pages. I.
- EL COBRE COPPER MINE. By B. B. Lawrence M. & M., vol. 31, p. 235. 10½ columns. I.
- EL COBRE MINES, CUBA. By E. G. Tuttle. M & M, vol. 31, p. 449. 11 columns I.
- COPPER ORES IN PORTO RICO. E. & M. J., vol. 88, p. 518. ½ column.
- CUBAN GOLD MINES. By E. B. Wilson. M & M., vol. 31, p. 240 1 column
- CUBAN GOLD MINING By E. W. Dennison. Min. & Sci. Press, vol. 97, p 500. ½ column
- Gold Mining in Porto Rico. By W. B. McKinlay. Min. & Sci Press, vol. 97, p 96, 5½ columns; p. 126, 7½ columns, I
- IRON ORES OF SANTIAGO, CUBA. By E. B. Wilson. M. & M., vol. 31, p. 245. 8½ columns. I.
- THREE DEPOSITS OF IRON ORE IN CUBA. By A. C. Spencer. U. S. G. S., Bull. 340, p. 318. 12 pages. I. 1907.
- THE RESIDUAL BROWN IRON-ORES OF CUBA. By C. M. Weld. T. A. I. M. E., vol. 40, p. 299. 13\(\frac{1}{2}\) pages. I.

West Virginia

- GAZETTEER OF WEST VIRGINIA. By H. Gannett. U. S. G. S., Bull. 233. 164 pages. 1904.
- Notes on the Coal Industry in West Virginia. By R. B. Brinsmade. E. & M. J., vol. 90, p. 775. 41 columns.
- UPPER POTOMAC COAL FIELDS, WEST VIRGINIA By H. H. Stoek. M. & M., vol. 30, p. 201. 8 columns. I.
- COAL MINING IN CENTRAL WEST VIR-'GINIA. By F. W. Parsons. E. & M. J., vol. 87, p. 1284. 16 columns. I.

- COAL FIELDS OF CENTRAL WEST VIR-GINIA. By H. H. Stoek M. & M., vol 30, p 188. 10 columns. I.
- COAL FIELDS OF WEST VIRGINIA BY H H. Stoek. M. & M, vol. 29, p 219, 6½ columns, I.; p. 283, 7½ columns, I. and Map; p. 303, 8½ columns, I.; p. 509, 11½ columns. I.
- THE KANAWHA REGION, WEST VIRGINIA. By H. H. Stock M. & M., vol. 30, p. 36, 9 columns, I., p. 70, 8½ columns, I.
- COAL MINING IN KANAWHA VALLEY, WEST VIRGINIA. By S. M. Buck. U. S. G. S., Mineral Resources, 1883 and 1884.
- CORRELLATION THACKER FIELD, WEST VIRGINIA. By A. H Stow. M. & M., vol 31, p. 83. 4½ columns. I.
- A SKETCH OF THE MINES AND COPPER REGION OF SOUTHWESTERN VIR-GINIA By W J. March. Min. Mag, vol 9, p. 217. 3½ pages.
- THE GLASS-SAND INDUSTRY IN EAST-ERN WEST VIRGINIA. By G. W. Stose. U.S. G.S., Bull. 285, p. 473. 3 pages. 1905.
- West Virginia Oil and Gas Notes. E. & M. J., vol. 90, p. 823. 4½ columns.
- OIL FIELD AT FOLLANSBEE, WEST VIRGINIA. By F. W. Brady. M. & M., vol. 29, p. 207. 4½ columns. I.
- Notes from the Oil Fields. By F. W. Brady. M. & M., vol. 30, p. 156. 3½ columns. I.

Wisconsin

- COPPER IN SOUTHWESTERN WISCONSIN. By G. H. Cox. Min. & Sci. Press, vol. 99, p. 592 1½ columns. I.
- THE PENOKEE IRON-BEARING SERIES OF MICHIGAN AND WISCONSIN. By R. D. Irving and C. R. Van Hise. U. S. G. S., 10th Ann. Rept., pt. 1, pp. 341-507. 1888-89. I.
- The Iron Ores of Wisconsin. By E. Daniels. Min. Mag., vol. 10, p. 13. 12 pages.

- THE EMPIRE-ENTERPRISE ZINC MINES, WISCONSIN. By H C. George E. & M. J., vol. 89, p 1280 6½ columns. I.
- THE LEAD VEINS OF WISCONSIN. Mm. Mag., vol. 2, p. 493. 11½ pages.

Wyoming

- GEOLOGY AND MINERAL RESOURCES OF THE LARAMIE BASIN, WYOMING. By N. H. Darton and C E. Siebenthal. U. S G. S, Bull. 364. 81 pages. I. 1909
- THE ASBESTOS INDUSTRY IN CENTRAL WYOMING. By F. H. Barrow. E. & M. J, vol. 90, p. 559. 3 columns. I.
- Asbestos in Wyoming. By H. C. Beeler. E. & M. J, vol. 90, p. 955. 2½ columns. I.
- BENTONITE OF THE LARAMIE BASIN, WYOMING. By C. E. Siebenthal. U. S. G. S., Bull. 285, p. 445. 4 pages. 1905.
- PORTLAND CEMENT MATERIALS IN EASTERN WYOMING. By O. H. Ball. U. S. G. S., Bull. 315, p. 232. 12 pages. I. 1906.
- THE THICKEST COAL SEAM: Wyoming. E & M. J., vol. 86, p. 1169. 1 column
- A Model Coal Mining Plant in Wyoming. By H. M. Payne. E. & M. J, vol. 90, p. 224. 8½ columns. I.
- COAL AND OIL IN SOUTHERN UINTA COUNTY, WYOMING. By A. C. Veatch. U. S. G. S., Bull. 285, p. 331 23 pages. L. 1905.
- THE WESTERN PART OF THE LITTLE SNAKE RIVER COAL FIELD, WYOMING. By M. W. Ball. U. S. G. S., Bull. 341, p. 243. 12½ pages. I. 1907.
- The Eastern Part of the Little Snake River Coal Field, Wyoming. By M. W. Ball and E. Stebinger. U. S. G. S., Bull. 381, p. 186. 28 pages. I. 1908.

- THE NORTHERN PART OF THE ROCK SPRINGS COAL FIELD, SWEETWATER COUNTY, WYOMING. By A. R. Schultz. U. S. G. S., Bull. 341, p. 256 27 pages. I. 1907.
- The Southern Part of the Rock Springs Coal Field, Sweetwater County, Wyoming. By A. R. Schultz U. S. G. S., Bull. 381, p. 214. 68 pages I. 1908.
- COAL FIELDS OF THE NORTHEAST SIDE OF THE BIGHORN BASIN, WYOMING, AND OF BRIDGER, MONTANA. By C W. Washburne. U.S. G. S., Bull. 341, p. 165. 35 pages. I. 1907.
- COAL FIELDS OF THE SOUTHWEST SIDE OF THE BIGHORN BASIN, WYOMING. By E. G. Woodruff. U. S. G. S, Bull. 341, p 200. 18 pages. I. 1907.
- THE COAL FIELD IN THE SOUTHEAST-ERN PART OF THE BIGHORN BASIN, WYOMING. By E. G. Woodruff. U. S. G. S., Bull. 381, p. 170. 16 pages. I. 1908.
- COAL FIELDS OF EAST-CENTRAL CARBON COUNTY, WYOMING. By A. C. Veatch. U. S. G. S, Bull. 316, p. 244. 16 pages. I. 1906.
- COAL FIELDS IN A PORTION OF CENTRAL UINTA COUNTY, WYOMING. By A. R. Schultz. U. S. G. S., Bull. 316, p. 212. 30 pages. I. 1906.
- THE BUFFALO COAL FIELD, WYOMING. By H. S. Gale and C. H. Wegemann. U. S. G. S, Bull. 381, p. 137. 32 pages. I. 1908.
- THE EASTERN PART OF THE GREAT DIVIDE BASIN COAL FIELD, WYOMING. By E. E. Smith. U. S. G. S., Bull. 341, p. 220. 23 pages. I. 1907.
- THE POWDER RIVER COAL FIELD, WYOMING, ADJACENT TO THE BURLINGTON RAHLROAD. By R. W. Stone and C. T. Lupton. U. S. G. S., Bull. 381, p. 115. 22 pages. I. 1908.
- COAL OF LARAMIE BASIN, WYOMING. By C. E. Siebenthal. U. S. G. S., Bull. 316, p. 261. 3 pages. 1906.

- COAL AND OIL IN SOUTHERN UINTA COUNTY, WYOMING. By A. C. Veatch. U. S. G. S, Bull. 285, p. 331. 23 pages. I. 1905.
- The Sheridan Coal Field, Wyoming. By J A Taff. U S. G. S., Bull 341, p. 123. 14 pages. 1907.
- GEOGRAPHY AND GEOLOGY OF A PORTION OF SOUTHWESTERN WYOMING, WITH SPECIAL REFERENCE TO COAL AND OIL By A. C. Veatch. U. S. G. S, Professional Paper 56. 178 pages I. 1907.
- THE COAL MINES OF SOUTHERN WYOMING. By F. W. Parsons. E. & M J, vol. 85, p 118. 6½ columns. I.
- THE DIAMONDVILLE COALFIELD, WY-OMING. By A. T. Shurick. E. & M. J., vol. 85, p. 116. 6 columns. I.
- THE GLENROCK COAL FIELD, WYOM-ING. By E. W. Shaw. U. S. G. S., Bull. 341, p. 151. 14 pages. I. 1907.
- THE LANDER COAL FIELD, WYOMING. By E G. Woodruff U S. G. S., Bull. 316, p. 242. 2 pages. 1906.
- COPPER DEPOSITS OF THE HARTVILLE UPLIFT, WYOMING. By S. H. Ball. U. S. G. S., Bull. 315, p. 93. 14 pages. 1906.
- LAKE CREEK, WYOMING, A NEW MIN-ING DISTRICT. By W. Benton. E. & M. J., vol. 86, p. 36. 1 column.
- GOLD DEVELOPMENTS IN CENTRAL UINTA COUNTY, WYOMING, AND AT OTHER POINTS ON SNAKE RIVER. By A. R. Schultz. U. S. G. S., Bull. 315, p. 71. 18 pages. I. 1906.
- WIND RIVER PLACERS, WYOMING. By J. H. Hastings. Min. & Sci. Press, vol. 98, p. 864. 1 column.
- GRAPHITE IN THE HAYSTACK HILLS, LARAMIE COUNTY, WYOMING. By S. H. Ball. U. S. G. S., Bull. 315, p. 426. 2 pages. 1906.
- GYPSUM DEPOSITS OF THE LARAMIE DISTRICT, WYOMING. By C. E. Siebenthal. U. S. G. S., Bull. 285, p. 404. 2 pages. 1905.

- THE HARTVILLE IRON-ORE RANGE, WYOMING. By S H Ball. U S. G S., Bull. 315, p. 190. 15½ pages. I. 1906.
- Titaniferous Iron Ore of Iron Mountain, Wyoming. By S H Ball. U. S. G S, Bull. 315, p. 206. 7 pages. 1906.
- MICA IN THE HARTVILLE UPLIFT, WYOMING. By S. H. Ball. U. S. G. S., Bull. 315, p. 423. 3 pages. 1906.
- THE LABARGE OIL FIELD, CENTRAL UINTA COUNTY, WYOMING. By A. R. Schultz. U. S. G. S, Bull. 340, p. 364. 9 pages. I 1907.
- PLATINUM IN RAMBLER MINE, WYOMING By J. F. Kemp. U S G. S., Mineral Resources, 1902. 7 pages.
- PRELIMINARY REPORT ON THE PHOS-PHATE DEPOSITS IN SOUTHEASTERN

- IDAHO AND ADJACENT PARTS OF WYOMING AND UTAH. By H. S. Gale and R. W Richards U. S. G. S., Bull. 430, p 457. 82 pages. I. 1909.
- THE SALT RESOURCES OF THE IDAHO-WYOMING BORDER, WITH NOTES ON THE GEOLOGY. By C. L. Berger. U S G. S, Bull. 430, p. 555. 15 pages. 1909
- DEPOSITS OF SODIUM SALTS IN WY-OMING. By A. R. Schultz. U. S. G. S., Bull. 430, p. 570. 19 pages. I. 1909.
- SULPHUR DEPOSITS NEAR THERMOP-OLIS, WYOMING. By E. G Woodruff U S. G S., Bull. 380, p 373. 8 pages. I. 1908.
- SULPHUE DEPOSITS AT CODY, WYOMING. By E. G. Woodruff. U. S. G. S., Bull. 340, p. 451. 6 pages. I. 1907.

MINE DRAINAGE

Drainage in General

- CURRENT PUMPS FOR MINING. By F. Reed. M. & M., vol. 30, p. 653. 3\frac{2}{3} columns. I.
- DIVERTING WATER IN A WET SHAFT. By A. D. Cox. M. & M., vol 30, p. 415. \(\frac{2}{3}\) column. I.
- Pumping During Shaft Sinking. M. & M., vol. 30, p. 404. 5 columns. I.
- See also SHAFT SINKING.
- THE DRAINAGE OF THE NEW CHUM LINE OF REEF. By F. G. Buckell. T. Au. I. M. E, vol. 8, pt. 2, p. 250. 4 pages. Map. D.
- Drainage in the Joplin Region, Missouri: Shadow streams, etc. T. A. I. M. E., vol. 38, p. 327. 2 pages.
- Pumping Problems of the Joplin District. By D. Brittain. E. & M. J., vol. 86, p. 214. 10½ columns. I.

- MINE DRAINAGE IN JOPLIN DISTRICT. By L. L. Wittich. M. & M., vol 30, p. 535. 5½ columns. I.
- STORM WATER DRAINS AND DATA. By J. B. Balcomb. J. W. Soc. E., vol. 15, p. 699. 40 pages. I.
- Tapping Mine Water under Pressure. E. & M. J., vol. 86, p. 230. 1 column.
- See also USE OF BORE HOLES.
- NEW METHOD OF EXTRACTING OIL FROM BOREHOLES. By F. A. Talbot. E. & M. J., vol. 87, p. 1001. 6 columns. I.
- CIL FROM WELLS. By F. A. Talbot. E. & M. J., vol. 89, p. 1270. 4 columns. I.
- DETERMINING HEIGHT OF WATER IN INACCESSIBLE OPEN PIT. By B. H. Case. E. & M. J., vol. 85, p. 301. 12 columns. I.

THE DISCHARGE OF SEWAGE INTO TIDAL WATERS. By G. A. Soper. Sch. Mines Quart, vol. 30, p. 239. 12½ pages.

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Pumps for Mine Use

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- METHODS OF PUMPING DEEP GROUND WATERS. By C B. Burdick. J W. Soc. E., vol. 12, p. 719. 37 pages. I.
- THE PUMPING PROBLEMS AT THE TOMBSTONE MINE. By W. F. Staunton E. & M. J., vol. 89, p. 174. 3½ columns.
- Pumping at Bisbee, Arizona. By C. C. Austin. M & M., vol. 31, p. 132 4 columns. I.
- Pump Station at Leonard Mine, Butte. E. & M. J., vol. 90, p. 400. 2½ columns. I.
- THE OLD DOMINION PUMPING SYSTEM. By R. L. Herrick. M. & M., vol. 31, p. 324. 6 columns. I.
- DEEP PUMPING ON THE COMSTOCK.

 M. & M., vol. 30, p. 761. 5½ columns. I.
- Pumping Plant at the Ward Shaft, Virginia City, Nevada. E. & M. J., vol. 89, p 575. 12 columns. I.
- PUMPING PLANT AT THE TOMBSTONE CONSOLIDATED. By E. W. Walker. E. & M. J., vol. 88, p. 160. 5½ columns. I.
- An Urgent Pumping Problem and How It Was Solved. By J. A. Seager. E. & M. J., vol. 88, p. 509. 23 columns. I.
- THE EMERSON STEAM PUMP. E. & M. J., vol. 85, p. 555. 1½ columns. I.

Lowering a Large Pump into a Mine. By G. J Young E. & M. J, vol 87, p. 806 2½ columns. I. The Sinking Pump and Its Troubles. By M T. Hoster E. & M. J, vol. 89, p 601. 2½ columns. I See also Shaft Sinking See also Cost of Pumping and Bailing.

Water Rings for Mine Shafts

WATER RINGS IN THE FILBERT SHAFT, PENNSYLVANIA M. & M, vol. 30, p. 560 ²/₃ column. I.

WATER-RINGS FOR CIRCULAR SHAFTS. T. I. M. E., vol. 38, p. 25. ½ page.

Rotary Pumps

- CENTRIFUGAL PUMPS. By W. R. Wiley. J. W. Soc. E, vol. 15, p. 228. 36 pages. I.
- KINEMATICS OF ONE FORM OF ROTARY PUMP OR BLOWER. By S. W Balch. Sch. Mines Quart, vol 30, p. 21. 6 pages I.
- THE DESIGN OF CENTRIFUGAL PUMPS. By J. A. Seager. E. & M. J., vol. 90, p. 1216. 6 columns. I.
- CENTRIFUGAL PUMP EFFICIENCY. By V. V. Messer. Min. & Sci. Press, vol. 98, p. 696. 4½ columns. I.
- EFFICIENCY OF CENTRIFUGAL PUMES. By F. W. Kerns. Min. & Sci. Press, vol. 100, p. 862. 2½ columns.
- MOTOR DRIVEN CENTRIFUGAL PUMP FOR MINE USE. By C. Robinson. E. & M. J., vol. 87, p 404. 3½ columns. D.
- MINE PUMPING WITH DIRECT CONNECTED ELECTRICALLY DRIVEN TURBINE PUMPS By P. H. Moore. J. M. Soc. N. S., vol. 12, p. 1 8½ pages. See also Electricity in the Mine.
- THE LEA-DEGEN TURBINE PUMP. E. & M. J, vol. 86, p. 1005. 2 columns.
- INSTALLATION AND USE OF TURBINE PUMPS By M. S. Hachita. Coal Mining Supplement, E & M. J., vol. 88, p. 22. 8½ columns. I.

Cornish Pumps

- CORNISH PUMPS Min. & Sci. Press, vol. 97, p 46, 4½ columns, I.; p 83, 3 columns; p. 179, 4 columns. D
- CORNISH PUMPS AND PUMPING ENGINES. By H F. Collms. Min. & Sci. Press, vol 98, p. 289, 3½ columns; p. 317, 4½ columns. D.
- COMPOUND CORNISH PUMPING ENGINES. By W. P. Gauvain Min. & Sci. Press, vol. 99, p. 62. 5\frac{2}{3} columns. Diagrams.
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- AR-LIFT PUMP EMPLOYED IN UNWATERING MINE AFTER MINE FIRE. E. & M. J., vol. 85, p. 640. 4 columns. I.
- Direct Air-Pressure Pumping. Min. & Sci. Press, vol. 96, p. 819. 2½ columns. I.
- ATR LIFT PUMPING. By E. A. Rix. Min. & Sci. Press, vol. 101, p. 505. 4 columns. Tables.

- Efficiency of the Air Lift as a Solution Pump. By L. M. Green. E. & M. J., vol. 88, p. 251. 13\frac{3}{2} columns. I.
- Notes on the Pohle Air Lift. By W.S Anderson. E & M.J., vol. 89, p. 256 2½ columns.
- RAISING LIQUIDS BY COMPRESSED AIR. E. & M. J., vol 87, p 646. 2 column. I.
- THE ECONOMIC USE OF COMPRESSED AIR IN THE ELEVATION OF TAILINGS. By J. W. Archibald T. Au I M. E, vol. 8, pt 1, p 103. 4½ pages.
- UNWATERING SHAFT BY COMPRESSED AIR By L. Boudoire E & M. J., vol. 90, p. 848. 1½ columns. I.
- See also SHAFT SINKING.
- ELECTRIC REHEATER FOR AIR-DRIVEN PUMPS. E. & M. J., vol. 89, p. 1216. 1 column. I.
- See also Compressed AIR IN MINING.

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- THE VACUUM-PUMP IN THE CYANIDING OF SAND. By W A. Caldecott. Min. & Sci. Press, vol 98, p. 316. 1½ columns.
- THE USE OF THE VACUUM PUMP IN THE CYANIDING OF SAND P C M & M. Soc. S. A., vol. 9, p. 240. 2 columns.

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- ELECTRICAL MINE-PUMPS IN EUROPE. By A. S. Atkinson. Min. & Sci. Press, vol. 99, p. 334. 4 columns.
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UNWATERING FLOODED MINES. By D. Lamont. E. & M. J., vol 90, p. 639 3 columns

RECLAIMING FLOODED DRIFT MINES IN ALASKA. By W. H. Lanagan. Min. & Sci. Press, vol. 100, p. 892. 6½ columns. I.

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THE ROOSEVELT DEEP DRAINAGE TUNNEL, COLORADO. By R. M. Bagg. E. & M. J., vol. 88, p. 1061. 5 columns. I.

THE LOS ANGELES AQUEDUCT TUNNEL WORK. Min. & Sci. Press, vol. 100, p. 681. 3\frac{3}{4} columns. I.

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- HAND BORING BY THE VICTORIAN MINES DEPARTMENT. T. Au I. M. E., vol. 7, p. 49. 7 pages. I.
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- Notes on Hammer Drill Work at the Granite Mines, British Columbia. By H. B. Williams. T. I. M. & M., vol. 19, p. 463. 5½ pages. I.
- HAND DRILLING IN ALLUVIUM. By E. K. Hall. Min. & Sci. Press, vol. 101, p. 118. 2 columns.
- HAND CHURN DRILLING. By O. H. Packer. Min. & Sci. Press, vol. 99, p. 296. 1½ columns.
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- NEW DEVELOPMENTS IN WELL BORING AND IRRIGATION IN EASTERN SOUTH DAKOTA. By N H. Darton. U. S. G. S., 18th Ann Rept, pt. 4, pp. 561– 616, 1896–97. I.
- Boring. Prospect Work by Churn Drill. Min. Mag., vol. 10, p. 451. 4½ pages.

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- RECORD OF DEEF-WELL DRILLING FOR 1904. By M. L. Fuller, E. F. Lines, and A. C. Veatch. U. S. G. S, Bull. 264, 106 pages, 1905; Bull. 298, 299 pages, 1906.
- DEEP DIAMOND-BORING AT BALFOUR MAINS, FIFESHIRE, GREAT BRITAIN. By J. G. Thompson. T. I. M. E., vol. 36, p. 574. 6 pages. I.

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- A CONTRIBUTION TO THE QUESTION OF PRICES. By W. R. Ingalls. E. & M. J., vol. 89, p. 1011. 15 columns.

- Disposal of Gold from the Rand. By T. K. Rose. Min. & Sci. Press, vol. 98, p 560. 4\frac{2}{3} columns.
- PRESENT POSITION OF AUSTRALIA AND ITS GOLD MINES. By W. Westgrath. Min. Mag., vol. 9, p. 433. 4 pages.
- GOLD AND SILVER PRODUCED BY THE MINES OF AMERICA FROM 1492 to 1848. Min Mag, vol. 1, p. 219, 9½ pages, p. 365, 12 pages, I
- Silver Prices in 1909. By T T. Van Wagenen. Min & Sci. Press, vol. 98, p. 54. 4 columns D.
- ACTUAL EARNING POWER OF THE RAND MINES. By G. A Denny E & M. J., vol. 85, p 593. 6 columns.
- THE COMMERCIAL ASPECT OF RAND "PROFITS." By G. A. Denny. E. & M. J, vol. 85, p. 446. 7½ columns.
- THE WORLD'S GOLD PRODUCTION. By T A Rickard. Min. Mag, London, vol 2, p 455. 5½ columns.
- Gold Production and Its Effects. By T. L. Garrison. Min. & Sci. Press, vol. 96, p. 268. 1½ columns.
- PRODUCTION OF PRECIOUS METALS IN THE UNITED STATES. By C. King. U. S. G S., 2d Ann Rept., pp. 331-401. 1880-81 I
- GOLD AND SILVER PRODUCTION IN THE UNITED STATES. Min. & Sci. Press, vol. 98, p. 9. 2 columns. Table.
- A Geological Analysis of the Silver Production of the United States in 1906. By W. Lindgren. U. S. G. S., Bull. 340, p. 23. 11 pages. 1907.
- YIELD OF THE COMSTOCK MINES. Min. & Sci. Press, vol. 22, p. 296. { column.
- See also Cost of Production of Various Materials.

The Function of Gold and Silver

On the Decline in the Value of the Precious Metals. Min. Mag., vol. 9, p. 525. 3½ pages.

- "Defrectation of Gold." By J. P. Norton. E. & M. J., vol. 84, p. 446. 3\frac{3}{2} columns.
- HAS THE VALUE OF GOLD DEPRE-CIATED? By W. R. Ingalls. E & M. J, vol. 86, p. 1037. 18 columns. D.
- THE DISTRIBUTION OF THE GOLD PRODUCED ON THE RAND. By T. K. Rose P. C. M. &. M. Soc. S. A, vol 9, p. 265. 8 columns.
- THE GOLD AND SILVER QUESTION BY T. Cornish. T. Au. I. M. E, vol 2, p. 51. 6 pages.
- THE MARKET PRICE AND GOLD PRODUCTION E. & M J, vol. 85, p. 1303 3 columns. D.
- THE SILVER MOVEMENT IN 1907. E. & M. J, vol. 85, p. 302 2 columns.
- A Russian Money Trust. By G. E. Walsh. Min. & Sci Press, vol. 99, p. 195. 2½ columns.
- See also Occurrence of Platinum.

Conservation

- CONSERVATION OF NATURAL RE-SOURCES By J Douglas E. & M. J., vol. 87, p. 1202. 11 columns.
- THE CONSERVATION MOVEMENT By C. W. Hayes. Min. & Sci. Press, vol. 101, p. 664. 9½ columns.
- CONSERVATION AND SOME DIFFICUL-TIES. By H. V. Winchell. Min. & Sci. Press, vol. 99, p. 819. 2½ columns.
- CHEMISTRY AND THE CONSERVATION OF OUR FORESTS AND MINERALS. By M. T. Bogert. Sch. Mines Quart., vol. 30, p. 217. 21½ pages.
- See also CHEMISTRY.
- Conservation of Iron Ore and Coal Resources. P. C. M. & M. Soc. S. A., vol. 9, p. 248 2 columns.
- Waste of Our Fuel Resources. By I. C. White. M. & M., vol. 29, p. 41. 6½ columns. I.
- CONSERVATION AND ALASKAN COAL. By H. F. Bain. Min. & Sci. Press, vol. 100, p. 185. 7\(\frac{3}{2}\) columns. Map.

- CONSERVATION AS IT AFFECTS COAL LANDS. By E. W. Parker Sci. Press, vol. 101, p. 469. 3½ col-
- THE WASTE OF MINERAL FUEL RE-SOURCES. By I C. White. E. & M. J, vol. 85, p. 1139. 7 columns.
- THE CONSERVATION OF COAL IN THE UNITED STATES. By E W Parker. T A. I. M E., vol. 40, p 596, 71 pages; Discussion, p. 901, 5 pages.
- CONSERVATION OF COAL IN SOUTH AFRICA. P C. M. & M. Soc. S. A., vol. 9, p. 333. 4 column.
- Papers on the Conservation of Min-ERAL RESOURCES U.S.G.S, Bull. 395, 214 pages. I 1909.
- PRESIDENT TAFT ON CONSERVATION OF MINERAL LANDS E. & M J., vol. 90, p 495. 6½ columns.
- CONSERVATION OF ORES AND MIN-ERALS By Andrew Carnegie. E. & M. J., vol. 85, p. 1051. 7 columns.
- THE AMERICAN INSTITUTE OF MINING Engineers and the Conservation OF NATURAL RESOURCES. By J. Birkinbine. T. A. I. M. E., vol. 40, p. 412. 7 pages.
- CONSERVATION OF NATURAL RE-SOURCES. By J. Douglas. T. A I. M. E, vol. 40, p. 419. 131 pages; Discussion, p 878. 2½ pages.
- CONSERVATION AND INLAND WATER-WAYS. By E. P. North. Min. & Sci. Press, vol. 100, p. 225. 4 columns.
- THE CONSERVATION OF THE FORESTS AND WATER POWERS OF WISCONSIN. By E. M. Griffiths. J. W. Soc. E, vol. 13, p. 617. 14 pages. I.
- THE CONSERVATION OF OUR FORESTS IN RELATION TO THE DEVELOPMENT OF OUR METAL MINES. By E. P. Brown. J. M. Soc. N. S., vol. 14, p. 31. 5½ pages.
- "CONCRETE LUMBER" AND FOREST PRESERVATION. E. & M. J., vol. 87, p. 421. decolumn.
- See also CONCRETE and USE OF CON-CRETE IN MINES.

- See also Dredging for Gold and OTHER MATERIALS, and WASTE IN MINING.
- See also Sources and Supplies of WATER.

The Copper Trade

- THE FUTURE OF COPPER. By J. T. Morrow. E. & M J., vol. 85, p. 412. 4 columns. D.
- COPPER INDUSTRY. By C. Kirchoff, Jr. U. S. G. S., Mineral Resources 1883 and 1884, vol. 14.
- THE COPPER SITUATION. By James Douglas. Min & Sci. Press, vol 95, p. 526. 4 columns.
- THE ACTUAL SITUATION OF COPPER, 1908. By J. Douglas. Min. & Sci. Press, vol. 96, p. 7. 13 columns.
- VISIT TO THE LAKE SUPERIOR REGION. By E. Rivot. Min. Mag., vol 6, p. 28, 8½ pages; p. 99, 8 pages; p. 207, 4 pages; p. 414, 3 pages.
- METHODS OF COPPER MINING. By H. L. Hancock. Min. & Sci. Press, vol. 98, p. 730. 2½ columns.
- THE WORK OF THE TENNESSEE COPPER COMPANY. By K. R. Morgan. Min. & Sci Press, vol. 101, p. 675. 51 columns
- DIAGRAM OF COPPER PRICES J., vol. 89, p. 560. 1 column. D.
- THE PRODUCTION OF COPPER. By L. C. Groton. Min. & Sci. Press, vol. 96, p. 102. 1½ columns.
- COPPER THROUGH FIFTY YEARS: Production. By J. Douglas. Min & Sci. Press, vol. 100, p. 727. 6 colnmns.
- LAKE SUPERIOR COPPER MINING IN 1909: Production. By R. H. Maurer. Min. & Sci. Press. vol. 100, p. 22. 8½ columns. I.
- COPPER IN 1909: Production, etc. By L. Vogelstein. Min. & Sci. Press, vol. 100, p. 9. 5 columns. D.
- See also Occurrences of Copper and COPPER ORES.

- See also METALLURGY OF COPPER.
- See also Cost of Producing Various Materials.

The Iron Trade

- HISTORY OF THE ENGLISH IRON TRADE SINCE 1830 Min. Mag., vol 5, p. 312. 8½ pages.
- IRON TRADE OF SWEDEN AND NORWAY. By H Scriviner Min Mag, vol 3, p. 505. 8 pages.
- THE IRON ORE SITUATION IN NOVA SCOTIA. By J. E. Woodman. J M. Soc. N. S., vol. 10, p. 133. 14 pages.
- IRON ORE RESERVES. E. & M. J., vol 88, p. 117. 1 column.
- PRODUCTION AND CONSUMPTION OF THE CLINTON IRON-ORES OF ALABAMA. T. A I. M. E., vol. 40, p. 132. 2 pages.
- AMERICAN IRON TRADE FROM 1619 TO 1886. By J. M. Swank. U. S. G. S., Mineral Resources, 1886, vol. 8. 12 pages.
- LAKE SUPERIOR IRON ORE SHIPMENTS. E. & M. J., vol 89, p. 706. 1½ columns.
- PRICES OF LAKE IRON ORE FROM 1891 TO 1910. E. & M. J., vol. 89, p. 467. decolumn.
- PRICES OF LAKE ORES: 1857 to 1883. E. & M. J., vol. 87, p. 854. ½ column.
- ECONOMIES OF STEEL PRICES. E. & M. J., vol. 87, p. 461 11 columns.
- See also Occurrence of Iron Ores.
- See also Metallurgy of Iron and Steel.
- See also Iron Blast Furnaces, etc, also Cost of Producing Various Materials.

The Coal Trade

RECIPROCITY IN COAL. By W. C. Milner. J. M. Soc. N. S., vol. 10, p. 148. 12 pages.

- COAL AND IRON PRODUCTION OF THE UNITED STATES. Min Mag., vol. 10, p. 39. 12½ pages.
- A SUGGESTION TO THE COAL MINING INDUSTRY By T. B. Bancroft. E. & M. J., vol 89, p. 925. 7½ columns.
- PROBLEMS CONFRONTING THE COAL INDUSTRY By S. A. Taylor. E. & M. J., vol. 89, p 476. 5½ columns.
- PROBLEMS IN THE COAL INDUSTRY.

 M & M, vol. 30, p. 689 2 columns.
- Conditions Affecting the Coal-Mining Industry By E. W. Parker. E & M. J., vol. 89, p. 576. 5½ columns.
- VITAL FACTS PERTAINING TO COAL MINING. By F. W. Parsons. E. & M. J., vol. 90, p. 128 13 columns.
- ALABAMA OPERATORS DISCUSS COAL PROBLEMS. E. & M. J, vol. 90, p. 326. 11½ columns.
- FACTS CONCERNING PRESENT FUEL SITUATION. By F. W. Parsons. E. & M. J, vol. 90, p. 773. 6 columns. I.
- A REPORT ON THE ECONOMIC VALUE OF THE SEMI-BITUMINOUS COAL OF THE CUMBERLAND COAL BASIN. By R. J. Rankin. Min. Mag., vol. 4, p 47, 12 pages, I.; p. 141, 10½ pages; p. 219, 20 pages, I.
- MINING COAL. By L. C. Moore. P. E. Soc. W. Pa., vol. 23, p. 241 18 pages.
- THE ANTHRACITE TRUST DECISION. E. & M. J., vol. 90, p 1199. 22 columns.
- REMOVAL OF THE COAL DUTY. By F. A. Hill. M. & M., vol 29, p. 359. 1 column.
- THE FUTURE SUPPLY OF ANTHRACITE COAL. By R. Lee. Coal Mining Supplement, E. &. M. J., vol. 88, p. 5. 8½ columns. I.
- See also Occurrence of Coal, and Cost of Producing Various Materials.

Miscellaneous Production

- MINERAL AND METAL PRODUCTION IN 1907 E. & M. J., vol. 85, p. 1, 3 columns.
- MINERAL AND METAL PRODUCTION IN 1908 E. & M. J., vol. 87, p. 51. 3 columns.
- ORE SHIPMENTS. Min. & Sci. Press, vol. 22, p 216. 2 columns.
- PRODUCTION OF ARIZONA MINES IN 1907. E. & M. J, vol. 86, p. 422. 34 columns.

See also Arizona.

- ORE RECEIPTS AND SHIPMENTS AT LAKE PORTS M. & M., vol. 29, p. 44. ½ column. Map and D.
- DIAMOND PRODUCTION IN SOUTH AFRI-CA. E. & M. J. vol. 86, p. 1148. column.

See also Africa.

REVIEW OF PROGRESS IN THE MINERAL PRODUCTION OF BRITISH COLUMBIA. By E. Jacobs. J. C. M. I., vol. 10, p. 183. 5 pages.

See also British Columbia.

- MINERAL PRODUCTION OF BRITISH COLUMBIA. By E. Jacobs. E. & M J., vol. 85, p. 1291. 6½ columns.
- MINERAL PRODUCTION OF BRITISH COLUMBIA IN 1907. By E Jacobs. J. C. M. I., vol. 11, p. 452. 7 pages.
- MINERAL PRODUCTION OF BRITISH COLUMBIA IN 1908. By E. Jacobs. E. & M. J., vol. 87, p. 247. 12½ columns.
- MINERAL PRODUCTION OF BRITISH COLUMBIA IN 1909. J. C. M. I., vol. 13, p. 56. 3 pages.
- MINERAL PRODUCTION OF CALIFORNIA IN 1907. E. & M. J., vol. 86, p. 731. 3 columns.

See also California.

- MINERAL PRODUCTION OF CANADA. E. & M. J., vol. 85, p. 598. 9 columns.
- MINERAL PRODUCTION OF CANADA IN 1909. By J. McLeish. E. & M. J., vol. 89, p. 607. 81 columns.

See also Canada.

MINERAL PRODUCTION OF CHINA IN 1907. By T T. Read. E. & M. J., vol. 85, p. 1296 8 columns.

See also CHINA.

MINERAL PRODUCTION OF CHILE IN 1908 AND 1909. By F A. Sundt. Min. & Sci. Press, vol. 100, p. 802. 1½ columns.

See also CHILE.

MINERAL PRODUCTION OF IDAHO FOR 1909. By F. C. Moore. E. &. M. J. vol. 89, p. 527. 4 columns.

See also Idaho.

PRODUCTION OF THE VARIOUS METALS IN KENTUCKY DURING 1908. By C. J. Norwood. E. & M. J., vol 87, p. 1250. 5² columns.

See also Kentucky.

- THE MINERAL PRODUCTION OF MARY-LAND IN 1908. By W. B. Clark. E. & M. J., vol. 87, p. 903. 21 columns.
- MARYLAND'S MINERAL PRODUCTION. By W. B. Clark. E. & M. J, vol. 85, p. 807. 2 columns.

See also MARYLAND.

- EARLY PRODUCTION OF THE JOPLIN LEAD AND ZINC DISTRICT E. & M. J., vol. 85, p. 561. } column.
- ECONOMIC CONDITIONS IN THE JOPLIN DISTRICT. By T. L. Carter. E. & M. J., vol. 90, p. 759. 7½ columns. I.
- JOPLIN ZINC AND LEAD PRODUCTION FOR 1910. By L. L. Wittich. M. & M, vol. 31, p. 435. 1 column. Table.

See also Missouri.

- PRODUCTION AND CONSUMPTION OF ZINC IN 1907. By W. R. Ingalls. E. & M. J., vol. 85, p. 1183. 12 columns. I.
- LEAD IN 1909: Production, etc. By J. H. Lang. Min. & Sci. Press, vol. 100, p. 11. 1½ columns.
- Western Lead Producers' Associa-TION. By L. A. Palmer. M. & M., vol. 29, p. 440. 2½ columns.

See also Occurrence of Lead and Zinc Ores.

PETROLEUM PRODUCTION. Min. & Sci. Press, vol 100, p. 84. 2 columns. D. See also Petroleum.

TIN IN 1909. Production, etc. By H. W. Turner. Min & Sci. Press, vol 100, p. 61. 4 columns.

See also Occurrence of Tin.

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M. & M., vol 29, p 256. 11 columns. I.

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CRADLE FOR DUMPING MINE-CARS. By S. S. Clarke. Min. & Sci. Press, vol. 101, p. 803. 1 column. I.

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- BUCKET DUMPING DEVICE By C N Nelson. E & M. J., vol. 89, p. 1004. ½ column I.
- ARRANGEMENT FOR DUMPING BUCKETS.

 By H. N. Herrick. Min. & Sci.

 Press, vol. 95, p 533. 2½ columns.

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- THE USE OF INDEXES. By R. W. Raymond. Min. & Sci. Press, vol. 95, p. 239. 3½ columns.
- BIBLIOGRAPHY AND INDEX OF NORTH AMERICAN GEOLOGY, PALEONTOLOGY, PETROLOGY, AND MINERALOGY FOR 1892 AND 1893. By F. B. Weeks. U. S. G. S., Bull. 130, 210 pages, 1896; Bull. 135, 141 pages, 1896; Bull. 146, 130 pages, 1896; Bull. 146, 130 pages, 1896; Bull. 152 pages, 1897; Bull. 156, 130 pages, 1898; Bull. 162, 163 pages, 1899; Bull. 172, 141 pages, 1900; Bull. 188, 717 pages, 1902; Bull. 203, 144 pages, 1902; Bull. 221, 200 pages, 1903; Bull. 240, 243 pages, 1904; Bull. 271, 218 pages, 1905; Bull. 301, 770 pages, 1906.

- CATALOGUE AND INDEX OF THE PUBLICATIONS OF THE UNITED STATES GEOLOGICAL SURVEY, 1880–1901. By P. C. Warman U S. G S. Bull. 177, 858 pages, 1901; Bull 215, 234 pages, 1903; Bull. 222, 208 pages, 1904.
- BIBLIOGRAPHY AND INDEX OF THE PUBLICATIONS OF THE U.S. GEOLOGICAL SURVEY, 1879–1882. By P. C. Warman. U. S. G. S., Bull. 100, 495 pages. 1893.
- CATALOGUE AND INDEX OF CONTRIBUTIONS TO NORTH AMERICAN GEOLOGY, 1732–1891. By N. H. Darton. U. S G S., Bull. 127, 1045 pages, 1896; Bull. 189, 337 pages, 1902.
- BIBLIOGRAPHY OF NORTH AMERICAN GEOLOGY FOR 1906 AND 1907. By F. B. Weeks and J. M. Nickels. U. S. G. S., Bull. 372, 317 pages. 1909.
- See also Geologic Progress and Studies.
- INDUSTRIAL CATALOGUE LIBRARY. By J. G. D. Mack. P. Soc. P. E. E., vol. 12, p. 84. 15 pages.
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- REPORT OF WORK DONE IN THE DIVI-SION OF CHEMISTRY AND PHYSICS. U. S. G. S., Bull. 27, 80 pages, 1886; Bull. 42, 152 pages, I., 1887; Bull. 55, 96 pages, I., 1889; Bull 60, 174 pages, 1890; Bull. 64, 60 pages, 1890; Bull. 78, 131 pages, 1891; Bull 90, 77 pages, 1892; Bull. 113, 115 pages, 1893.
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- WASTE OF COAL: Deterioration T. A. I. M. E., vol. 38, p. 630. 3 pages.

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- PEAT DEPOSITS. By N. S. Shaler. U. S. G. S., 16th Ann Rept., pt. 4, 9 pages.
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- THE PREPARATION AND USE OF PEAT AS FUEL IN ALASKA By C. A. Davis. U. S. G. S., Bull. 442, p. 101. 32 pages. 1909.

- THE POSSIBLE USE OF PEAT FUEL IN ALASKA. By C A Davis. U. S. G. S, Bull 379, p. 63. 4 pages. 1908.
- THE AMERICAN PEAT SOCIETY. E. & M. J, vol. 90, p. 254 2 columns.

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Gas for Power: Its Generation and Use

- Gas Power in High Altitudes. E. & M J., vol 90, p. 1262. 4½ columns.
- Suction Gas and Its Application to Mining. By G. D. Stephen. E. & M. J., vol. 87, p. 1076 6 columns. I.
- Power Production at Collieries, with Special Reference to Gas Power and Electrical Centralization. By R Crawford and H. Moores T I. M. E., vol. 39, p. 501. 19 pages I.
- See also General Application of Power.
- A Tarless Onl-Gas Producer. By A B. Davis. Min. & Sci. Press, vol. 100, p. 219. 5 columns. I.
- UTILIZING BLAST FURNACE GASES AT GARY. E & M. J., vol. 87, p. 20. 7½ columns.
- POWER FROM COPPER BLAST-FURNACE GASES. By R. Schorr. E. & M. J, vol. 87, p. 459. 5½ columns.
- See also METALLURGICAL PROCESSES AND WORKS.
- THE USE OF NATURAL GAS IN THE JOPLIN DISTRICT. By D. Brittain. E. & M. J., vol 86, p. 568. 7½ columns. I.
- THE UTILIZATION OF FIREDAMP IN SARREBRUCK COALFIELDS E. & M. J., vol. 89, p. 430. ½ column.
- THE BEGINNING OF THE USE OF NATURAL GAS FOR FUEL. By J. L. Cowan. Min. & Sci. Press, vol. 101, p. 44. 4 columns
- See also Occurrence of Natural Gas.
- THE USE OF COKE-OVEN GAS AS FUEL. By T. J. Brown. J. M. Soc. N. S., vol. 15, p. 1. 8 pages.
- USE OF COKE-OVEN GAS AS FUEL. By T. J. Brown. M. & M., vol. 30, p. 690. 3\frac{1}{2} columns.
- Utilization of By-Product Gases from Coke Ovens. By H. M.

- Payne. E. & M. J., vol 89, p 927. 2½ columns.
- See also COKE, ETC.
- THE PRESENT STATUS OF THE PRODUCER-GAS POWER PLANT IN THE UNITED STATES By R. H. Fernald U.S.G.S, Bull. 316, p 439. 22 pages. 1906.
- A New Gas Producer for Low Grade Fuel. By A. Gradenwitz. E. & M J, vol. 88, p. 1019. 3½ columns. I.
- RECENT DEVELOPMENT OF THE PRODUCER-GAS POWER PLANT IN THE UNITED STATES By R. H. Fernald. U. S G. S, Bull. 416, 82 pages L. 1909.
- A BITUMINOUS POWER GAS PRODUCER. By E. F. Bulmahn. P E. Soc. W. Pa., vol. 25, p. 603. 19 pages I.
- THE PRESENT STATUS OF THE PRODUCER-GAS POWER PLANT IN THE UNITED STATES. By R H Fernald. J W Soc. E, vol 12, p 551 58 pages. I.
- PROCESSES FOR THE DISTILLATION AND PURIFICATION OF THE PRODUCTS OF COAL. By C B. Mansfield Min. Mag, vol. 7, p. 1. 9 pages.
- SULPHUR IN GASEOUS FUELS By F. Louis Grammer. T. A I. M E, vol. 39, p. 545 2½ pages.
- THE VALUE OF GAS POWER. By C. E. Lucke. Sch Mines Quart, vol 30, p. 199. 18 pages. I.
- See also Testing Fuels and Their Value.
- See also Cost of Fuel.

Fuel Substitutes, Etc.

- COAL-DUST FIRING FOR REVERBERA-TORY FURNACES. By C. F. Shelby. E & M J, vol. 85, p. 541. 9½ columns.
- COAL DUST FIRING OF REVERBERATORY FURNACES. E. & M. J., vol. 85, p. 660. 1³/₂ columns.

- BURNING WOOD UNDER BOILERS. By E G. Tilden. E & M J., vol. 87, p. 499. 2 columns. I
- THE FIREWOOD SUPPLIES OF THE GOLD-FIELDS. By E. Kelso T. Au. I. M E., vol 8, pt. 1, p. 108. 4 pages.
- THE AMOUNT OF WOOD IN A CORD.

 M. & M., vol 30, p. 140. ½ column.
- CHARCOAL. The Blast Furnace Fuel of Ontario By R. H. Sweetzer. J. C. M. I., vol 11, p. 165. 6 pages. I.
- TAN BARK AS A BOILER FUEL. By D. M. Myers Sch. Mines Quart., vol. 31, p. 116. 27½ pages. I.
- THE POSSIBLE USE OF PEAT FUEL IN ALASKA. By C. A. Davis. U. S. G. S., Bull. 379, p. 63. 4 pages. 1908.

Briquetting of Fuels and Ores

- CONDITION OF THE COAL-BRIQUETTING INDUSTRY IN THE UNITED STATES. By E. W. Parker. U. S. G. S, Bull. 316, p. 460. 26 pages 1906.
- COAL-BRIQUETTING IN THE UNITED STATES. By E. W. Parker. T A. I. M. E, vol. 38, p 581. 40 pages. I.
- COAL BRIQUETTING AT HARTSHORNE, OKLAHOMA. By C. T. Malcomson. M. & M., vol. 29, p. 339 72 collums. I.
- COAL BRIQUETTING. By C. Scholz. J. W. Soc. E., vol. 14, p 137. 18 pages. I
- COAL BRIQUETTE PLANT AT BANK-HEAD, ALBERTA, CANADA. By E. W. Parker. T. A. I. M. E, vol. 39, p. 236. 7 pages. I.
- COAL-BRIQUETTE PLANT AT BANK-HEAD, ALBERTA, CANADA: Discussion of the paper of E. W. Parker, p. 236. T. A. I. M. E, vol. 39, p. 892. 4½ pages.
- PROGRESS IN FUEL BRIQUETTING. By R. Schorr. E. & M. J., vol. 89, p. 524. 5 columns. D.
- A COMMERCIAL FUEL-BRIQUETTE PLANT. By W. H. Blauvelt. T. A.

- I M. E., vol 41, p. 255, 13 pages, I.; p. 891, 9½ pages
- BINDERS FOR COAL BRIQUETTES. By J. E. Mills. U. S. G. S., Bull. 343. 56 pages. 1908.
- Eignite Briquetting in Germany. By R. Schott. E. & M. J., vol. 85, p 460 51 columns.
- BRIQUETTING SLAG WITH COKE DUST. E. & M J., vol. 89, p 820. \(\frac{3}{2}\) column.
- PROGRESS WITH THE GRONDAL PROCESS OF CONCENTRATING AND BRIQUET-TING IRON ORES. By P. McN Bennie. J. C. M. I., vol. 11, p. 189 14 pages. I. Maps.
- See also Testing Fuels and Their Value.
- See also Cost of Fuel.
- FUEL: Its Combustion and Economy By J Sharpe. T Au I. M. E., vol. 2, p 106. 3½ pages.
- See also Consumption and Waste of Coal.
- Notes on Fuel Economy, and Its Application to Nova Scotia. By A A Hayward. J. M. Soc N. S, vol. 13, p. 1. 20 pages D
- OUR STEAM-COAL AND ITS USES. By Lees Knowles. T I. M E, vol. 36, p. 273. 13 pages.

Testing Fuels and Their Value

- PITTSBURG TESTING STATION. M. & M., vol. 30, p. 233. 2½ columns.
- COAL-TESTING IN THE UNITED STATES. P. C. M. & M. Soc. S. A., vol. 7, p. 193 4 columns.
- See also Preparation of COAL.
- COMPARATIVE TESTS OF RUN-OF-MINE AND BRIQUETTED COAL. E & M. J., vol. 87, p. 611. 2½ columns.
- REPORT ON THE OPERATIONS OF THE COAL-TESTING PLANT OF THE UNITED STATES GEOLOGICAL SURVEY AT THE LOUISIANA PURCHASE EXPOSITION, ST. LOUIS, MISSOURI, 1904. By E. W. Parker, J. A.

- Holmes and others U. S G S, Professional Paper 48, 1492 pages. 1906.
- A STUDY OF FOUR HUNDRED STEAMING TESTS, MADE AT THE FUEL-TEST-ING PLANT, ST. LOUIS, MISSOURI. By L. P Breckenridge U. S. G S., Bull. 325 196 pages, 1907.
- Washing and Coking Tests of Coal and Cupola Tests of Coke By R Moldenke and others. U S. G S, Bull 336. 76 pages. 1908.
- Comparative Tests of Run-of-Mine and Briquetted Coal on Locomotives, Including Torpedo-Boat Tests and Some Forbign Specifications for Briquetted Fuel By W F. M Goss. U. S. G S, Bull 363 57 pages. I. 1908.
- Tests of Coal and Briquetts as Fuel for House-Heating Boilers. By D T. Randall U S. G. S., Bull 366 44 pages. I. 1908
- COMPARATIVE TESTS OF RUN-OF-MINE AND BRIQUETTED COALS ON THE TORPEDO-BOAT BIDDLE. By W T. Ray and H. Kreisinger. U S G S, Bull. 403 49 pages. 1909
- TESTS OF RUN-OF-MINE AND BRI-QUETTED COAL IN A LOCOMOTIVE BOILER. By W. T. Ray and H. Kreisenger. U. S. G. S, Bull. 412, 32 pages. 1909.
- Test of Coal Briquetts. By W. F. M. Goss. M. & M, vol 30, p 433. 2 columns.
- BRIQUETTING TESTS AT UNITED STATES FUEL-TESTING PLANT, NORFOLK, VIRGINIA. By C. L. Wright U. S. G. S., Bull. 385. 41 pages. I. 1909.
- See also Briquetting of Fuels and Ores.
- INCIDENTAL PROBLEMS IN GAS-PRODUCER TESTS. By R H. Fernald and others. U. S. G. S., Bull. 393. 29 pages. 1909.
- See also Gas for Power.
- COMMERCIAL DEDUCTIONS FROM COM-PARISONS OF GASOLINE AND ALCO-HOL TESTS ON INTERNAL COMBUS-

- TION ENGINES By R. M. Strong U S G. S, Bull. 392 38 pages 1909
- THE SMOKELESS COMBUSTION OF COAL IN BOILER PLANTS. By D T. Randall and H W. Weeks U S. G S, Bull. 373. 188 pages. 1909.
- RULES FOR SMOKELESS CONSUMPTION OF FUELS By R Grimshaw. E & M J, vol. 87, p. 1142. 2½ columns
- THE COMBUSTION OF COAL By J A. Holmes. T A. I. M. E, vol 41, p 244. 11½ pages.
- Combustion of Coal upon Grates By E G. Bailey. E & M J, vol. 86, p 184. 4 columns
- THE FUEL ECONOMY OF DRY BLAST. By R S Moore. M & M., vol 30, p. 263. 13 columns. D.
- THE LIMIT OF FUEL-ECONOMY IN THE IRON BLAST-FURNACE. By N M Langdon. T. A. I. M E, vol 40, p. 614. 22 pages
- CALCULATION OF CALORIFIC POWER OF FUELS. P C M & M. Soc S A, vol 7, p. 417. $\frac{3}{2}$ column
- AN INITIAL COAL-SUBSTANCE WITH A CONSTANT THERMAL VALUE BY S W Parr and W. F. Williams. Min. & Sci Press, vol 97, p 501. 14 columns.
- THE REAL VALUE OF STEAM COAL By D. T Randall. E. & M. J., vol 88, p. 565. 1½ columns.
- PRACTICAL FUEL VALUES. By W P. Young. M & M, vol. 31, p 178 2½ columns
- A DETAILED STUDY OF PRACTICAL FUEL VALUES By W. P. Young. E & M. J, vol. 89, p 14 4 columns.
- IGNITION POINTS OF WOOD AND COAL. P. C. M. & M. Soc. S. A., vol. 9, p. 134. ½ column.
- Ignition-Points of Wood and Coal. By Henry Hall T. I M. E., vol. 36, p. 2 6 pages.

- THE EFFECT OF OXYGEN IN COAL BY D. White U. S. G. S., Bull 382. 74 pages I 1909.
- EQUALIZATION OF FUELS. By H K. Meyers M. & M, vol. 31, p. 405 3½ columns. D.
- BURNING THE SMALL SIZES OF ANTHRACITE FOR HEAT AND POWER PURPOSES By D. T. Randall. U. S. G. S, Bull. 378. 44 pages. 1909.
- Gravity Determination of Coal. By A. G. Blakeley and E. M. Chance. M. & M., vol. 31, p. 499. 2 columns.
- See also THEORY OF CONCENTRATION.
- THE UTILIZATION OF FUEL IN LOCO-MOTIVE PRACTICE. By W. F. M. Goss. U S. G. S., Bull. 402. 28 pages 1909

See also Gas for Power.

See also Cost of Fuel.

GEOLOGY. MINERAL AND FOSSIL FUEL DEPOSITS

Geological Surveys

- RECORDING GEOLOGICAL DATA By T. F. Field. M & M., vol. 30, p. 14. 4 columns. I.
- Geology A Popular Lecture By J F Kemp Sch. Mines Quart, vol. 29, p. 125. 24 pages
- Geology Its Importance and Scope. By J. F. Kemp. Min & Sci Press, vol. 96, p. 497, 8 columns; p 533, 7 columns
- ELEMENTARY GEOLOGY Min. Mag, vol 1, p 135 10 pages. I
- MODERN GEOLOGY. Min Mag, vol. 1, p 480. 9 pages.
- AMERICAN GEOLOGY Min Mag., vol 3, p. 392. 9½ pages
- NEED OF INSTRUMENTAL SURVEYING IN PRACTICAL GEOLOGY. By B S. Lyman. T. A. I M. E., vol. 40, p. 636. 8 pages. I.
- THE UNITED STATES GEOLOGICAL SUR-VEY. By R. H. Chapman J C. M. I, vol. 13, p. 372. 24 pages. I
- THE UNITED STATES GEOLOGICAL SUR-VEY: Its Origin, Development, Organization, and Operation. U S. G. S., Bull. 227. 205 pages I. 1904.
- WORK OF STATE GEOLOGICAL SURVEYS. By H. F. Bain. J. C. M. I, vol. 13, p. 364. 7½ pages.
- GEOGRAPHICAL DICTIONARY OF ALASKA. By M Baker. U. S. G. S., Bull. 187. 446 pages. 1901.

- GEOGRAPHIC DICTIONARY OF ALASKA. By M Baker U S G. S, Bull. 299. 690 pages. 1906.
- ALASKAN GEOGRAPHIC NAMES. By M. Baker. U. S. G. S, 21st Ann Rept, pt 2, pp. 487-509 1899-1900.
- WORK OF THE GEOLOGICAL SURVEY OF CANADA. E & M. J., vol 85, p. 1105. 5 columns.
- GEOLOGICAL AND MINING NOTES ON CHINA By A. Hassam. T. I M. E, vol 36, p 353. 12 pages
- A GEOGRAPHIC DICTIONARY OF CON-NECTICUT. By H Gannett. U. S. G S, Bull. 117. 67 pages 1894.
- THE WORK OF THE STATE (ILLINOIS)
 GEOLOGICAL SURVEY. By H F.
 Bain J. W Soc. E., vol. 12, p. 233.
 18 pages. I.
- A GEOGRAPHIC DICTIONARY OF MASSA-CHUSETTS. By H Gannett. U. S. G S, Bull. 116. 126 pages. 1894.
- A GEOGRAPHIC DICTIONARY OF NEW JERSEY By H Gannett. U. S. G.S., Bull. 118. 131 pages 1894. I.
- BIOGRAPHY OF NORTH AMERICAN GEOLOGY FOR 1886. By N. H Darton U. S. G. S., Bull 44 35 pages. 1887.
- BIBLIOGRAPHY OF NORTH AMERICAN GEOLOGY FOR 1908 By J M. Nickles U. S. G. S., Bull. 409, 148 pages, 1909; Bull. 444, 174 pages, 1910.

- RECORD OF NORTH AMERICAN GEOLOGY FOR 1807 TO 1889 INCLUSIVE. By N. H. Darton. U. S. G. S., Bull. 75, 173 pages, 1891; Bull. 91, 88 pages, 1891; Bull 99, 73 pages, 1892
- BOUNDARIES OF THE UNITED STATES AND THE SEVERAL STATES AND TER-BITORIES, WITH A HISTORICAL SKETCH OF THE TERRITORIAL CHANGES By H. Gannett. U. S. G. S, Bull 13. 135 pages. 1885
- Notes on the Geological Surveys of Various Countries. By J Stirling. T. Au. I. M. E., vol. 5, p 192. 25 pages.

Geological Formations

- NORTH AMERICAN GEOLOGIC FORMATION NAMES. By F. B. Weeks. U S G. S, Bull. 191. 448 pages. 1902.
- THE NORTH AMERICAN CONTINENT
 DURING CAMBRIAN TIME By C D.
 Walcott U. S. G S., 12th Ann
 Rept, pt. 1, pp. 523-568 1890-91.
 I.
- Observations on the Junction between the Eastern Sandstone and the Keweenaw Series on Keweenaw Point, Lake Superior. By R. D. Irving and T. C. Chamberlain U. S G. S., Bull. 23. 124 pages. I. 1885
- Tertiary History of the Grand Canyon District, with Atlas. By C E. Dutton. U S. G. S., Monograph II. 264 pages I. 1882.
- PRE-CAMBRIAN GEOLOGY OF NORTH AMERICA. By C. R. Van Hise and C. K. Leith. U S. G. S., Bull. 360. 935 pages. I. 1909.
- PLEISTOCENE GEOLOGY OF THE LEAD-VILLE QUADRANGLE, COLORADO By S. R. Copps. U. S. G. S., Bull. 386. 99 pages. I. 1909.
- Limestone in West Virginia. By G. P. Grimsley. E. & M. J., vol. 85, p. 1144 3 columns.

- THE COLORADO FORMATION AND ITS INVERTEBRATE FAUNA. By T. W. Stanton. U. S. G. S, Bull. 106. 288 pages. I. 1893.
- THE LARAMIE AND THE OVERLYING LIVINGSTON FORMATION IN MONTANA. By W. H. Weed. U S. G.S., Bull. 105. 68 pages. I. 1893.
- PRELIMINARY PAPER ON AN INVESTI-GATION OF ARCHEAN FORMATIONS OF NORTHWESTERN STATES. By R D Irving U. S. G S, 5th Ann. Rept., pp. 175–242. 1883–84. I.
- Obsidian Cliff, Yellowstone National Park. By J P Iddings. U. S. G. S., 7th Ann. Rept, pp. 249– 295. 1885–86. I.
- ON CLASSIFICATION OF EARLY CAMBRIAN AND PRE-CAMBRIAN FORMATIONS By R. D Irving. U. S. G S, 7th Ann. Rept, pp. 365-454. 1885-86 I
- STRUCTURE OF TRIASSIC FORMATION OF CONNECTICUT VALLEY. By W M. Davis U. S. G S, 7th Ann Rept., pp. 455-490. 1885-86 I
- QUATERNARY HISTORY OF MONA VAL-LEY, CALIFORNIA. By I. C Russell U. S G S, 8th Ann. Rept, pt 1, pp 261-394. 1886-87 I.
- PLEISTOCENE HISTORY OF NORTH-EASTERN IOWA. By W J McGee. U. S G S, 11th Ann. Rept, pt 1, pp 189-577 1889-90 I.
- THE LAFAYETTE FORMATION. By W. J. McGee. U. S G. S., 12th Ann. Rept, pt. 1, pp 347-521. 1890-91 I.
- THE POTOMAC FORMATION. By L F. Ward. U. S. G. S., 15th Ann. Rept., pp. 307-397 1893-94 I
- Some Analogies in the Lower Cretaceous of Europe and America. By L. F. Ward. U. S. G. S., 16th Ann. Rept., pt. 1, pp. 463-542. 1894-95. I
- THE TRIASSIC FORMATION OF CONNECTICUT. By W. M. Davis. U. S. G. S., 18th Ann. Rept., pt. 2, pp. 1-192 1896-97. I.

- Table of North American Tertiary Horizons. By W. H. Dall U. S. G. S., 18th Ann. Rept., pt. 2, pp. 323– 348. 1896–97.
- THE CRETACEOUS FORMATION OF THE BLACK HILLS AS INDICATED BY THE FOSSIL PLANTS By L. F. Ward. U S G. S, 19th Ann Rept, pt. 2, pp. 521-946. 1897-98. I.
- THE DEVONIAN SYSTEM OF EASTERN
 PENNSYLVANIA AND NEW YORK BY
 C S. Prosser. U. S. G. S., Bull. 120.
 81 pages. I. 1894
- THE BEAR RIVER FORMATION AND ITS CHARACTERISTIC FAUNA By C. A. White U S. G. S., Bull 128. 108 pages I 1895.
- THE POTOMAC FORMATION IN VIRGINIA By W. M Fontaine. U. S. G. S., Bull. 145. 149 pages. I. 1896.
- The Index-Beds in the Carboniferous Limestone Series of Scotland By R. W. Dron. T. I. M. E, vol. 38, p. 383. 15 pages I.
- Principles of Pre-Cambrian North American Geology. By C. R. Van Hise U. S. G. S., 16th Ann. Rept, pt 1, pp. 571-874. 1894-95. I.
- TERTIARY AND CRETACEOUS STRATA OF THE TUSCALOOSA, TANBIGBEE AND ALABAMA RIVERS. By E A Smith and L. C. Johnson U. S. G. S, Bull. 43. 189 pages. I. 1887
- LAKE BONNEVILLE. By G. K. Gilbert U. S G S., Monograph I 438 pages I. 1890.
- CONTRIBUTIONS TO HISTORY OF LAKE BONNEVILLE. By G. K. Gilbert U. S. G. S., 2d Ann. Rept., pp. 167– 200. 1880–81. I.
- FORMATION OF TRAVERTINE AND SILICEOUS SINTER BY THE VEGETATION OF THERMAL SPRINGS. By W. H. Weed. U. S. G. S., 9th Ann. Rept., pp. 613–676. 1887–88. I.
- GENERAL ACCOUNT OF THE FRESH-WATER MORASSES OF THE UNITED STATES, WITH A DESCRIPTION OF THE DISMAL SWAMP DISTRICT OF VIR-

- GINIA AND NORTH CAROLINA. By N. S. Shaler. U. S. G. S., 10th Ann. Rept., pt. 1, pp. 255-339. 1888-89.
- PRELIMINARY REPORT ON SEACOAST SWAMPS OF EASTERN UNITED STATES By N. S Shaler. U. S G. S., 6th Ann. Rept, pp. 353-398. 1884-85.
- SKETCE OF GEOLOGICAL HISTORY OF LAKE LAHONTAN, A QUARTERNARY LAKE OF NORTHWESTERN NEVADA. By I. C. Russell. U. S. G S., 3d Ann. Rept., pp. 189–235. 1881– 82 I.
- TOPOGRAPHIC FEATURES OF LAKE SHORES. By G. K. Gilbert. U. S. G. S, 5th Ann. Rept., pp 69–123. 1883–84.
- THE ESMERALDA FORMATION, A FRESH-WATER LAKE DEPOSIT. By H. W. Turner. U. S. G. S, 21st Ann Rept., pt. 2, pp. 191-226. 1899-1900. I.
- MOUNDS FORMED BY MINERAL SPRINGS. By F. L. Hess. Min. & Sci. Press, vol 100, p. 675. 2 columns. I.
- THE HIGH PLAINS AND THEIR UTILIZATION. By W. D. Johnson U. S. G. S, 21st Ann. Rept, pt 4, pp. 601-741, 1899-1900, I; 22d Ann Rept. pt. 4, pp. 631-669, 1900-1901, I

Geology of Districts: General

- THE GEOGRAPHY AND GEOLOGY OF ALASKA. By A. H. Brooks. U S. G S, Professional Paper 45. 327 pages. I. 1906.
- Geology of the Copper River District, Alaska. E. & M. J., vol. 85, p. 1275. 1 column.
- GEOLOGIC RECONNAISSANCE IN THE MATANUSKA AND TALKEETNA BASINS, ALASKA By S. Paige and A. Knopf. U S. G. S., Bull. 327. 71 pages. I. 1907.
- RECONNAISSANCE FROM FORT HAMLIN TO KOTZEBUE SOUND, ALASKA, BY WAY OF DALL, KANUTI, ALLEN AND KOWAK RIVERS. BY W. C.

- Mendenhall. U. S. G. S., Professional Paper 10. 68 pages. I. 1902.
- PRELIMINARY REPORT ON A RECONNAISSANCE ALONG CHANDLAR AND KOYUKUK RIVERS, ALASKA, IN 1899. By F. C Schrader. U. S. G. S, 21st Ann. Rept., pt. 2, pp. 441–486 1899–1900. I
- A RECONNAISSANCE IN NORTHERN ALASKA ACROSS THE ROCKY MOUNTAINS, ALONG KOTUKUK, JOHN, ANAETUOUK, AND COLVILLE RIVERS, AND THE ARCTIC COAST TO CAPE LISBURNE IN 1901 By F. C. Schrader. U. S. G. S, Professional Paper 20. 139 pages I. 1904.
- OUTLINE OF THE GEOLOGY AND MINERAL RESOURCES OF THE ILIAMA AND CLARK LAKES REGION. By G. C. Martin and F. J. Katz. U. S. G. S., Bull. 442, p. 179. 22 pages. I. 1909.
- Geology and Mineral Resources of the Berners Bay Region, Alaska. By A. Knopf U. S. G. S, Bull. 446 58 pages. I.
- THE GEOLOGY AND MINERAL RE-SOURCES OF A PORTION OF THE COP-PER RIVER DISTRICT, ALASKA. By F. C. Schrader and A. C. Spencer. U. S. G. S., Special Publications, 1901. 94 pages I.
- RECONNAISSANCE OF THE GEOLOGY AND MINERAL RESOURCES OF PRINCE WILLIAM SOUND, ALASKA. By U. S. Grant and D. F. Higgins. U. S. G. S., Bull. 443. 89 pages. I 1910
- GEOLOGY AND MINERAL RESOURCES OF THE SOLOMON AND CASADEPAGO QUADRANGLES, SEWARD PENINSULA, ALASKA. By P. S. Smith. U. S. G. S., Bull. 433. 234 pages. I.
- Notes on the Geology and Mineral Prospects in the Vicinity of Seward, Kenai Peninsula. By U. S. Grant and D. F. Higgins, Jr U. S. G. S., Bull. 379, p. 98. 10 pages. I. 1908
- Geology and Mineral Resources of Iron Creek, Alaska. By P. S.

- Smith. U. S. G. S., Bull. 314, p. 157. 7 pages. I. 1906.
- GEOLOGY AND MINERAL RESOURCES OF THE CONTROLLER BAY REGION, ALASKA. By G. C. Martin. U. S. G. S., Bull. 335. 141 pages I. 1908.
- GENERAL GEOLOGY, AND ECONOMIC GEOLOGY, ALASKA U S. G. S., 21st Ann Rept, pt 2 522 pages. I.
- RECONNAISSANCE IN SOUTHWESTERN ALASKA IN 1898 By J. E. Spurr. U. S G S., 20th Ann. Rept., pt. 7, pp 31-264. 1898-99. I.
- RECONNAISSANCE IN SUSHITNA BASIN AND ADJACENT TERRITORY, ALASKA. By C H Eldridge. U. S. G. S., 20th Ann Rept, pt. 7, pp. 1–29. 1898– 99. Maps.

See also Alaska

GEOLOGIC RECONNAISSANCE OF A PART OF WESTERN ARIZONA. By W. T. Lee. U. S. G. S., Bull. 352. 96 pages. I. 1908.

See also Arizona.

HISTORICAL SKETCH OF THE GEOLOGI-CAL RELATIONS OF AUSTRALIA AND TASMANIA. By R. M. Johnston. T. Au. I. M. E., vol. 3, p 256. 28 pages D.

See also TASMANIA.

- Some Geological Considerations Affecting Western Australian Ore-Deposits. By A. Montgomery. T. Au. I M E, vol. 13, p. 160. 32 pages I.
- THE ECONOMIC GROLOGY OF NEW ZEALAND. By J. M. Bell. T. Au. I. M. E, vol. 13, p. 66. 20 pages. I. Map

See also NEW ZEALAND.

- THE GEOLOGY AND ORE DEFOSITS OF FRANKLIN CAMP, BRITISH COLUM-BIA. By R W. Brock. J. C. M. I., vol 10, p 170. 10 pages. I.
- Notes on Mother Lode in British Columbia. By R. H. Allen. E. & M. J., vol. 88, p. 1101. 7 columns. I.
- OBSERVATIONS ON THE GEOLOGY AND ORE DEPOSITS OF CAMP HEDLEY,

- British Columbia. By C. Camsell. J. C. M. I, vol. 11, p. 423. 10 pages Maps.
- SIR WM. E. LOGAN AND THE GEOLOGI-CAL SURVEY OF CANADA. By R Bell. J. C. M. I., vol. 10, p. 342 28 pages I.
- NOTES ON GEOLOGICAL STRUCTURE AT THE RICHARDSON MINE AS SHOWN BY PLANS AND MODELS OF THE SAME, UPPER SEAL HARBOUR, NOVA SCOTIA. By E Percy Brown. J. M. Soc. N S, vol. 13, p. 17. 10 pages. I.
- ORE DEPOSITS IN WESTERN ONTARIO. E. & M. J., vol. 90, p. 325. 3 columns.
- NORTH CAROLINA: Its Geology, Minng Regions, Scenery, Etc. By J. Eights. Min. Mag, vol 10, p. 183, 5½ pages; p. 268, 5 pages; p. 369, 4½ pages; p. 423, 4 pages.

See also THE CAROLINAS

Geological and Mining Notes on China. By A. Hassam. T I. M. E., vol 36, p. 353. 12 pages.

See also China.

- DESCRIPTIVE GEOLOGY OF NEVADA SOUTH OF THE FORTIETH PARALLEL AND ADJACENT PORTIONS OF CALI-FORNIA. By J E. Spuit. U. S. G. S., Bull. 208. 229 pages. I. 1903
- Notes on the Geology of Northern California By J. S. Diller. U S. G. S., Bull. 33. 23 pages 1886.
- Geology of San Clements Island, California. By W. S. T. Smith. U. S. G. S., 18th Ann. Rept., pt. 2, pp. 459–496. 1896–97. I.
- SKETCH OF GEOLOGY OF SAN FRAN-CISCO PENINSULA. By A. C. Lawson U. S. G. S., 15th Ann Rept., pp. 399-476. 1893-94. I.
- HISTORICAL GEOLOGY OF CALIFORNIA. By W. Forstner. Min. & Sci. Press, vol. 98, p. 853, 10½ columns, I.; p. 891, 4 columns, I.; vol. 99, p. 55, 6½ columns; p. 91, 3¾ columns.

See also California.

- GEOLOGICAL DISTRIBUTION OF THE PRECIOUS METALS IN COLORADO By T. A. Rickard. Min & Sci. Press, vol 100, p. 89, 11 columns, I.; p. 150, 8 columns, I.; p. 316, 9\frac{3}{2} columns, I.
- Notes on the Economic Geology of Southeastern Gunnison County, Colorado. By J. M. Hill. U S. G. S., Bull 380, p. 21. 20 pages. I. 1908.
- On Geology and Physiography of a Portion of Northwestern Colo-RADO AND ADJACENT PARTS OF UTAH AND WYOMING. By C. A White. U. S. G. S., 9th Ann. Rept., pp. 677– 712. 1887–88. I.
- Geology of the Boulder District, Colorado. By N. M. Fenneman. U. S. G. S., Bull. 265. 101 pages. 1905.
- Geology of the Denver Basin in Colorado. By S. F. Emmons. U. S. G. S., Monograph XXVII. 556 pages. I. 1896.
- GEOLOGICAL SECTION OF LEADVILLE, COLORADO Min. & Sci. Press, vol. 96, p 60. I.

See also Colorado.

- Geological Reconnaissance across Idaho. By G. H. Eldridge. U. S. G. S., 16th Ann. Rept., pt. 2, pp. 211-276. 1894-95. I.
- Notes on Geology of Snow Storm Mine, Idaho. By G. Huston. E. & M. J., vol. 90, p. 1109. 3 columns.
- ORE BODIES OF THE NORTH SIDE OF THE COUR D'ALENE DISTRICT. E. & M. J., vol. 86, p. 67. 4 columns I.
- THE OREBODIES OF THE BUNKER HILL AND SULLIVAN MINE. Min. & Sci. Press, vol. 97, p. 775. 6 columns. I.
- Geology of the North Side of the Cour d' Alene District. E. & M. J., vol. 86, p. 66. 2 columns.

See also Idaho.

Geology of Jamaica, as Related to Its History. By R. W. Raymond. Min. & Sci. Press, vol. 95, p. 145. 3½ columns.

- THE GEOLOGY OF THE FORT RILEY MILITARY RESERVATION AND VICINITY, KANSAS. By R. Hay. U. S G. S., Bull. 137. 35 pages. I. 1896.
- A GEOLOGICAL RECONNAISSANCE IN SOUTHWESTERN KANSAS. By R. Hay. U. S. G S., Bull. 57. 42 pages. I. 1890.

See also Kansas

- ECONOMIC GEOLOGY OF THE IOLA QUADRANGLE, KANSAS By G. I. Adams, E. Haworth, and W. R. Crane. U. S. G. S., Bull. 238. 83 pages. I. 1904.
- ECONOMIC GEOLOGY OF THE INDE-PENDENCE QUADRANGLE, KANSAS. By F. C Schrader and E. Haworth. U. S. G. S., Bull. 296 74 pages. I. 1906.
- CONTRIBUTIONS TO THE GEOLOGY OF MAINE. By H S Williams and H. E Gregory. U S G. S., Bull 165. 212 pages. I. 1900.
- THE GEOLOGY OF THE PERRY BASIN IN SOUTHEASTERN MAINE. By G O Smith U S G. S, Professional Paper 35. 107 pages I. 1905
- GEOLOGY OF THE ISLAND OF MOUNT DESERT, MAINE By N. S Shaler. U S G S, 8th Ann. Rept., pt. 2, pp. 987-1061. 1886-87 I.

See also MAINE.

- THE ECCENE DEPOSITS OF THE MIDDLE
 ATLANTIC SLOPE IN DELAWARE,
 MARYLAND, AND VIRGINIA. By W.
 B. Clark. U. S. G. S., Bull. 141.
 167 pages. I. 1896.
- The Geology of Eastern Berkshire County, Massachusetts. By B. K. Emerson. U. S G. S., Bull. 159. 139 pages. I. 1899.
- Geology of Old Hampshire County, Massachusetts, and Others. By B. K. Emerson. U. S. G. S., Monograph XXIX. 790 pages. I. 1898.
- GEOLOGY OF CAPE ANN, MASSACHU-SETTS By N. S. Shaler. U. S

- G. S., 9th Ann Rept., pp. 529-611. 1887-88 I.
- Geology of Cape Cod, Massachusetts. By N. S Shaler. U. S. G. S., 18th Ann. Rept., pt. 2, pp. 497-594 1896-97. I.

See also Massachusetts.

- GROWTH AND DECAY OF THE MEXICAN PLATEAU By R. T. Hill E. & M. J., vol 85, p. 681. 22½ columns. I
- GEOLOGIC STUDY OF THE SIERRA OF GUANAJUATO. E. & M. J, vol. 88, p 672 12 columns. I
- HOSTOTIPAQUILLO AND THE LERMA RIVER, MEXICO. By E Ordoñez. Min & Sci. Press, vol. 97, p 705. 7½ columns. I
- GEOLOGY OF NORTHERN MEXICO By R. H. Burrows Min & Sci. Press, vol. 99, p 290, 10 columns, I.; p 324, 8 columns, I
- A GEOLOGICAL JOURNEY IN GUERRERO, MEXICO. By J W. Finch. Min. & Sci. Press, vol. 101, p. 496. 9 columns.
- GEOLOGICAL NOTES ON WEST COAST OF MEXICO By C. W Botsford. E. & M. J., vol 89, p. 223. 6 columns.

See also Mexico.

- THE PENOKEE IRON-BEARING SERIES OF MICHIGAN AND WISCONSIN. By R. D. Irving and C R. Van Hise, U S G S, 10th Ann. Rept, pt. 1, pp 341-507. 1888-89 I.
- GEOLOGY AND MINERAL RESOURCES OF MISSISSIPPI. By A. F Crider U. S. G. S., Bull. 283 99 pages I. 1906.
- A SKETCH OF THE GEOLOGY OF THE STATE OF MISSISSIPPI. By O. M. Lieber. Min. Mag, vol. 3, p. 41. 5 pages I.

See also Mississippi.

- Geology of Missouri. By J. Hawes. Min. Mag., vol. 5, p. 382. 12½ pages.
- Notes on the Mineral Deposits of the Bearpaw Mountains, Mon-

TANA. By L J. Pepperberg. U S. G. S., Bull. 430, p. 135. 12 pages I. 1909.

GEOLOGY AND PALEONTOLOGY OF THE JUDITH RIVER BEDS By T. W. Stanton and J. B. Hatcher. U. S. G S., Bull. 257 174 pages. I. 1905

See also Montana.

SOME ORE DEPOSITS OF MAINE AND THE MILAN MINE, NEW HAMPSHIRE. By W H Emmons. U. S. G. S., Bull 432 62 pages I.

GEOLOGY OF THE MOGOLLONS. NEW Mexico. E. & M J, vol. 88, p. 63 14 columns.

See also New Mexico

THE RENSSELAER GRIT PLATEAU IN NEW YORK By T N Dale. U S. G. S., 13th Ann Rept, pt 2, pp. 291-340 1891-92

THE ECONOMIC GEOLOGY OF NORTHERN NEW YORK. By F S. Mills. E & M. J., vol. 85, p. 396. 7 columns. I.

GEOLOGY OF THE HUDSON VALLEY BE-TWEEN THE HOOSIC AND THE KIN-DERHOOK By T. N. Dale U. S. G. S., Bull. 242 63 pages. I. 1904.

THE CONFIGURATION OF THE ROCK FLOOR OF GREATER NEW YORK W. H. Hobbs. U S G. S., Bull. 270 96 pages. I 1905

See also NEW YORK.

NOTES ON THE GEOLOGY OF SOUTH-WESTERN IDAHO AND SOUTHEASTERN Oregon. By I. C. Russell. U S G S, Bull. 217. 83 pages. I 1903.

GEOLOGICAL RECONNAISSANCE NORTHWESTERN OREGON. By J. S. Diller. U.S.G.S., 17th Ann. Rept, pt. 1, pp. 441–520. 1895–96 I.

RECONNAISSANCE GEOLOGICAL SOUTHERN OREGON. By I C Russell. U.S.G.S, 4th Ann. Rept., pp. 431-464 1882-83. I.

See also Oregon.

DESCRIPTION OF THE GEOLOGY OF THE SCHUYLKILL COUNTY. PENNSYL-VANIA. By P. W. Sheafer. Min. Mag, vol. 2, p. 626. 4½ pages.

See also Pennsylvania.

ECONOMIC GEOLOGY OF THE AMITY QUADRANGLE IN EASTERN WASHING-TON COUNTY, PENNSYLVANIA F. G Clapp. U S G S, Bull. 300. 145 pages. I. 1907

ECONOMIC GEOLOGY OF THE BEAVER QUADRANGLE, PENNSYLVANIA. By L. H Woolsey. U S. G. S., Bull. 286. 132 pages. I. 1906.

GENERAL GEOLOGY OF THE PHILIP-PINES. U.S G S, 21st Ann. Rept., pt. 3, p. 644, 1899-1900, I; pt. 3, pp. 487-628, I

See also THE PHILIPPINES

PHYSIOGRAPHY OF THE CHATTANOOGA DISTRICT IN TENNESSEE, GEORGIA, AND ALABAMA By C. W. Haves U. S. G S, 19th Ann. Rept, pt. 2, pp 1-58. 1897-98 I.

See also Georgia and Alabama.

A SKETCH OF THE GEOLOGY OF TEN-NESSEE. By R. O Currey. Min. Mag., vol 9, p. 34. 10 pages.

See also Tennessee.

THE PRESENT CONDITION OF KNOWL-EDGE OF THE GEOLOGY OF TEXAS. By R. T. Hill U S. G. S, Bull 45. 95 pages. 1887.

GEOLOGY OF THE BLACK AND GRAND PRAIRIES, TEXAS. By R. T Hill. U. S. G. S., 21st Ann. Rept, pt. 7. 666 pages. 1899-1900. I.

GEOLOGY OF PORTIONS OF THE ED-WARDS PLATEAU AND RIO GRANDE PLAIN ADJACENT TO SAN ANTONIO, TEXAS By R T Hill and T. W. Vaughn. U. S G. S., 18th Ann. Rept., pt 2, pp. 193-322 1896-97.

See also TEXAS.

GEOLOGY OF THE RICHMOND BASIN. Virginia. By N. S Shaler. U. S. G. S., 19th Ann Rept., pt 2, pp 385-519. 1897-98. I.

See also VIRGINIA.

CONTRIBUTIONS TO THE GEOLOGY OF Washington. Geology and Physiography of Central Washington. By

- G. O. Smith. U. S. G. S., Professional Paper 19. 101 pages. I. 1903.
- A GEOLOGICAL RECONNAISSANCE IN CENTRAL WASHINGTON. By I. C. Russell. U. S. G. S., Bull 108. 108 pages. I. 1893.
- See also Washington.
- NOTES ON SOME ORE DEPOSITS OF PORTO RICO. By S. H. Hamilton. E. & M. J., vol 88, p 518. 4 columns I.
- Geologic Section Along the New and Kanawha Rivers in West Virginia. By M. R. Campbell and W. C. Mendenhall. U. S. G. S, 17th Ann. Rept, pt. 2, pp. 473–511. 1895–96. I
- See also West Virginia.
- ECONOMIC GEOLOGY OF THE KENOVA QUADRANGLE (KENTUCKY-OHIO-WEST VIRGINIA). By W. C. Phalen. U. S. G. S., Bull. 349. 158 pages. I. 1908.
- Geology of Wisconsin By J. G. Percival Min Mag., vol. 4, p 345, 18 pages; vol. 5, p. 113, 14 pages; p. 217, 12 pages.
- GEOLOGY AND MINERAL RESOURCES OF THE LARAMIE BASIN, WYOMING. By N. H. Darton and C. E. Siebenthal. U. S G S, Bull. 364. 81 pages. I. 1909.
- A GEOLOGICAL RECONNAISSANCE IN NOBTHWEST WYOMING. By G. H. Eldridge. U. S. G. S., Bull. 119. 72 pages. I. 1894.

See also WYOMING.

- Physical Geology of Grand Canyon District. By C E. Dutton U. S. G. S., 2d Ann. Rept., pp 47–166. 1880–81. I
- MOUNT TAYLOR AND THE ZUÑI PLA-TEAU. By C. E. Dutton. U S. G. S, 6th Ann. Rept, pp. 105-198. 1884-85 I.
- Geology of Head of Chesapeake Bay By W. J. McGee. U. S. G. S., 7th Ann. Rept., pp. 537-646. 1885-86. I.

- GEOLOGY OF THE CATOCHIN BELT. By A. Keith. U S. G. S., 14th Ann. Rept, pt. 2, pp. 285-395. 1892-93. I.
- FURTHER CONTRIBUTIONS TO GEOLOGY OF SIERRA NEVADA. By H. W. Turner. U S G. S, 17th Ann. Rept, pt. 1, pp. 521–762. 1895–96. I.
- Some Notes on the Economic Geology of the Skiena River. By W. W. Leach. J C. M I, vol. 10, p 218. 11 pages. Map.
- THE GEOLOGY OF NANTUCKET. By N. S. Shaler U S. G. S., Bull 53. 55 pages. I. 1889.
- Geology of the Narragansett Basin By N S Shaler and others. U S. G S, Monograph XXXIII. 202 pages. I. 1899
- Geology of the Yellowstone National Park. By J. P Iddings, W H. Weed, C D Wolcott and others. U. S. G. S., Monograph XXXII. 893 pages I 1899.
- PRELIMINARY REPORT ON THE GEOLOGY OF NEBRASKA WEST OF THE ONE HUNDRED AND THIRD MERIDIAN. By N. H Darton. U S. G S, Professional Paper 17. 69 pages. I. 1903.
- REPORT ON GEOLOGY OF MARTHAS VINEYARD. By N. S Shaler. U. S. G. S., 7th Ann. Rept, pp. 297-363. 1885-86. I.
- GEOLOGY OF LASSEN PEAK DISTRICT. By J. S. Diller U. S. G S, 8th Ann. Rept, pt. 1, pp. 395-432. 1886-87. I.
- THE GEOLOGY OF THE LITTLE WHIN SILL, WEARDALE, COUNTY DURHAM. By W M Egglestone. T I. M. E., vol. 39, p. 18 33½ pages. I.
- Yogo, and Other Districts. By W. H. Weed U. S. G. S., 20th Ann. Rept., pt 3, pp. 257-581. 1898-99. I.
- See also Source and Supply of Water

Glaciers

- EXISTING GLACIERS OF THE UNITED STATES. By I. C Russell U. S. G S, 5th Ann. Rept, pp 303-355. 1883-84. I.
- GLACIER BAY AND ITS GLACIERS, ALASKA By H F. Reid. U. S. G S, 16th Ann. Rept, pt. 1, pp. 415-461. 1894-95. I
- GLACIERS OF MOUNT RAINIER. By I C Russell U S.G S, 18th Ann. Rept, pt 2, pp. 349-424. 1896-97. I
- GLACIAL SCULPTURE OF BIGHORN
 MOUNTAINS, WYOMING. By F. E.
 Matthes U. S. G S, 21st Ann.
 Rept., pt. 2, pp 167–190. 1899–
 1900. I.
- THE YAKUTAT BAY REGION, ALASKA: Physiography and Glacial Geology. By R S. Tarr. U. S G S., Professional Paper 64. 133 pages I. 1909.
- GLACIAL BRICK CLAYS OF RHODE IS-LAND AND SOUTHEASTERN MASSA-CHUSETTS. By N S. Shaler U. S. G. S, 17th Ann. Rept., pt. 1, pp. 951-1004. 1895-96. I.
- THE GLACIAL BOUNDARY IN WESTERN PENNSYLVANIA, OHIO, KENTUCKY, INDIANA, AND ILLINOIS By G. F. Wright. U. S. G. S., Bull. 58. 112 pages. I. 1890.
- DELAWARE LOBE OF THE LAKE MICHIGAN GLACIER OF THE WISCONSIN STAGE OF GLACIATION AND ASSOCIATED PHENOMENA. By W C. Alden. U. S. G. S., Professional Paper 34. 106 pages. I. 1905.
- Geological History of Lake Lahontan, a Quaternary Lake of Northwestern Nevada. By I. C. Russell U. S. G. S., Monograph XI. 288 pages I. 1885.
- The Glacial Lake Agassiz. By W. Upham. U. S. G. S., Monograph XXV. 658 pages. I. 1896.
- THE UPPER BEACHES AND DELITAS OF THE GLACIAL LAKE AGASSIZ. By W.

- Upham. U. S. G. S, Bull 39. 84 pages I. 1887.
- GLACIATION OF THE YELLOWSTONE VALLEY NORTH OF THE PARK. By W H. Weed. U.S.G S, Bull 104. 41 pages. I. 1893.
- GLACIAL FORMATIONS AND DRAINAGE FEATURES OF THE ERIE AND OHIO BASINS. By F. Leverett. U. S. G S., Monograph XLI 802 pages. I. 1902.
- Changes in River Courses in Washington Territory Due to Glaciation. By B. Willis. U. S. G. S., Bull. 40. 10 pages. I. 1887.
- THE MONTANA LOBE OF THE KEWATIN ICE SHEET. By F. H. H Calhoun. U. S. G. S., Professional Paper 50. 62 pages I. 1906
- THE ILLINOIS GLACIAL LOBE. By F. Leverett. U. S. G. S., Monograph XXXVIII. 817 pages. I. 1899.
- THE MORAINES OF SOUTHEASTERN SOUTH DAKOTA AND THEIR ATTENDANT DEPOSITS. By J. E. Todd. U. S. G. S., Bull. 158. 171 pages. I. 1899.
- PRELIMINARY PAPER ON TERMINAL MORAINE OF SECOND GLACIAL EPOCH By T. C. Chamberlin. U. S. G. S., 3d Ann. Rept., pp. 291–402. 1881–82 I.
- PRELIMINARY PAPER ON DRIFTLESS AREA OF UPPER MISSISSIPPI VALLEY, By T. C. Chamberlin and R. D. Salisbury. U. S. G S, 6th Ann. Rept, pp. 199–322. 1884–85. I.
- THE MORAINES OF THE MISSOURI COTEAN AND THEIR ATTENDANT DEPOSITS. By J. E. Todd. U. S. G. S., Bull. 144. 71 pages. I. 1896.
- VALUE OF GEOLOGICAL WORK IN LIMESTONE REGIONS. By C. T. Rice. E & M. J, vol 90, p 1161. 8 columns.
- THE GLACIAL GRAVELS OF MAINE AND THEIR ASSOCIATED DEPOSITS. By G. H. Stone. U. S. G. S., Monograph XXXIV. 499 pages. I 1899.

ROCK SCORINGS OF THE GREAT ICE INVASIONS. By T. C. Chamberlin. U. S. G. S., 7th Ann. Rept, pp. 147– 248. 1885–86. 1.

Geology of Fuel and Ores

- GEOLOGY OF NEVADA'S NEW GOLD CAMP — ALUNITE. E. & M. J., vol 86, p 1203. 5 columns.
- MANJAK AS WORKED AT THE VISTA-BELLA MINE, TRINIDAD. By J. C. T. Raspass. T. I. M. E., vol. 36, p. 119. 5 pages
- See also Occurrence of Asphalt.
- GEOLOGY OF THE VIRGINIA BARITE-DEPOSITS. By T. L. Watson. T. A. I M. E., vol. 38, p. 710. 24 pages. I.
- See also Occurrence of Barite.
- STRATIGRAPHY OF THE BITUMINOUS COAL FIELD OF PENNSYLVANIA, OHIO AND WEST VIRGINIA. By I. C. White. U. S. G. S., Bull. 65. 212 pages. I. 1891.
- GEOLOGY OF THE GREAT FALLS COAL FIELD OF MONTANA. By C A. Fisher. U. S G. S, Bull. 356. 87 pages. I. 1909
- GEOLOGY OF THE LEWISTON COAL FIELD, MONTANA By W. R. Calvert. U. S. G. S., Bull. 390. 83 pages. I. 1909.
- GEOLOGY OF THE WEST VIRGINIA COAL-FIELDS. M. & M., vol. 29, p 303 6 columns.
- Geology of the La Vita Coal Field. By A. Lakes M. & M., vol. 31, p. 466. 5½ columns. I
- Geology of Herrin Quadrangle. By T. E. Savage M. & M., vol 31, p. 527. 9½ columns. I.
- See also Occurrence of Coal.
- Geology of the Central Copper Region, Alaska. By W. C. Mendenhall. U. S. G. S., Professional Paper 41. 133 pages. I. 1906
- Geology of the Globe-Kelvin District, Arizona. E. & M. J., vol. 89, p. 870. 5 columns.

- GEOLOGY OF THE GLOBE-KELVIN DIS-TRICT, ARIZONA. E. & M. J, vol 89, p. 769. 5 columns.
- GEOLOGY AT GLOBE, ARIZONA. By F. L Ransome Min. & Sci Press, vol. 100, p. 256. 4 columns.
- GEOLOGY OF THE FIELD (MOUNT LYELL) AND ITS MINES: Copper. By J W. Gregory. T. Au I. M. E., vol. 10, p. 54. 7½ pages.
- GEOLOGY OF THE COPPER DEPOSITS NEAR MONTPELIER, BEAR LAKE COUNTY, IDAHO. By H S Gale. U S. G S., Bull. 430, p. 112 9 pages. I 1909.
- GEOLOGY OF THE RAY MINES, NEVADA.

 M & M, vol. 29, p 544 1½ columns
- See also Occurrence of Copper.
- GEOLOGY OF THE ARKANSAS DIAMOND FIELDS. E. & M. J, vol. 87, p. 153. 3 columns.
- GEOLOGY OF THE BAHLA DIAMOND FIELDS, BRAZIL. E & M J., vol 87, p. 982 10 columns I.
- See also Occurrence of Diamonds.
- THE GEM BEARING PEGMATITES OF WESTERN MAINE By W. R. Wade. E. & M. J., vol. 87, p. 1127. 7½ columns. I.
- Geology of Gem Deposits. By E S. Bastin. U.S G.S., Bull 445. 152 pages. I. 1911.
- Sketch of the Geology of the Northeastern Part of the Fairbanks Quadrangle, Alaska. By L. M. Prindle. U S. G S, Bull. 442. p. 203 6 pages. I 1909
- THE INDICATORS OF THE DAYLESFORD GOLD MINES, VICTORIA By W. H. Vale. T. Au. I. M. E, vol 10, p. 340 12 pages. I.
- THE GEOLOGY OF NORTHWESTERN TASMANIA, AUSTRALIA T. Au. I. M. E, vol. 10, p. 38. 2½ pages.
- "Indicators" in Australian Mines. By W Bradford. T. Au. I. M E., vol. 4, p. 121. 22 pages. I.

- CONTACTS IN VICTORIAN MINES. By W. H. Ferguson. T. Au. I. M. E., vol 6, p. 34. 2 pages.
- GEOLOGY OF THE CENTRE STAR MINES, BRITISH COLUMBIA. E & M. J, vol. 89, p 17. 2 columns
- GEOLOGY OF THE EXPOSED TREASURE LODE, MOJAVE, CALIFORNIA. By C. De Kalb. T. A. I. M E., vol. 38, p 310. 10 pages. I.
- GEOLOGY OF THE YELLOW ASTER MINE, CALIFORNIA By W. H. Storms. E. & M. J, vol. 87, p. 1277. 12 columns. I.
- Notes on the Geology of the Porcupine District. E. & M. J, vol 90, p. 348. 2½ columns Map.
- GENETIC AND STRUCTURAL RELATIONS OF THE EASTERN GOLD-BELT OF NORTH CAROLINA. T. A. I. M. E., vol 38, p 851. 4 pages.
- GEOLOGY OF THE FALL RIVER ORE DEPOSITS, COLORADO M. & M, vol. 29, p. 294 1½ columns.
- GEOLOGY OF RAWHIDE DISTRICT, NEVADA. E. & M. J, vol. 87, p. 345. 1 column.
- THE GEOLOGICAL AND PHYSICAL CONDITION OF TONOPAH MINES. By W. P. Jenney E. & M. J., vol. 89, p 29. 34 columns.
- GEOLOGY OF THE JARBRIDGE MINING DISTRICT. By N. W. Sweetser. Min. & Sci. Press, vol 101, p. 871. 24 columns. I
- A TERTIARY RIVER CHANNEL NEAR CARSON CITY, NEVADA. By J. A Reid. Min & Sci Press, vol. 96, p 522. 7½ columns. I.
- Geological Possibilities at Goldfield. By A. Becker. Min & Sci. Press, vol. 96, p. 846. 2 columns. I.
- GEOLOGY OF THE MANHATTAN DISTRICT, NEVADA. By W. P. Jenney. E. & M. J., vol. 88, p. 82. 6 columns.
- REPORT ON GEOLOGY OF EUREKA DISTRICT, NEVADA. By A. Hague. U. S G. S., 3d Ann. Rept., pp. 237–290. 1881–82. I.

- Geology of the Tonopah Mining District, Nevada. By J. E. Spurt. U. S. G. S., Professional Paper 42, 295 pages. I. 1905.
- GEOLOGY OF THE FORTUNA MINE, BINGHAM, UTAH E & M. J., vol. 86, p 1191 7 columns.
- GEOLOGY OF THE FRENCH GUIANA GOLDFIELDS. T A. I. M. E., vol. 41, p 574. 1 page.
- GEOLOGY OF KOLAR GOLD FIELD. By C S. Durand. M. & M., vol. 31, p. 350. 2½ columns.
- THE GEOLOGY OF THE COFFEE CREEK
 MINING DISTRICT. By N. S. Stines.
 Min. & Sci. Press, vol. 95, p. 25.
 2½ columns
- See also Occurrence of Gold.
- GEOLOGY OF THE LORRAINE OÖLITIC IRON ORE DEPOSITS, FRANCE. E. & M. J., vol 87, p 1222. 6 columns I.
- THE GEOLOGICAL RELATIONS OF THE SCANDINAVIAN IRON-ORES. By H Sjogren T. A. I. M. E., vol. 38, p. 766. 69 pages. I.
- See also Occurrence of Iron Ores. Geology of the Southeast Missouri Lead District. By H. A. Wheeler. E. & M. J., vol. 89, p. 465. 43 columns.
- GEOLOGY OF THE ORE DEPOSITS OF THE CGUR D'ALENE DISTRICT, IDAHO. E. & M. J, vol. 88, p. 1056. 9 columns I.
- REPORT ON GEOLOGY AND MINING IN-DUSTRY OF LEADVILLE, COLORADO. By S. F. Emmons. U. S G. S., 2d Ann. Rept., pp 201–290. 1880– 81. I.
- See also Occurrence of Lead
- THE GEOLOGY OF PETROLEUM. M & M., vol. 31, p. 607 4½ columns I.
- GEOLOGY OF OIL AND GAS. By E. Haworth. M. & M., vol. 30, p. 52. 4½ columns. I.
- Geology and Oil Resources of the Coalinga District, California. By R. Arnold and R. Anderson. U. S. G. S, Bull. 398. 354 pages. L. 1910.

- GEOLOGY OF THE COALINGA OILFIELD. M. & M., vol. 31, p. 4. 5 columns. I.
- GEOLOGY OF THE COALINGA OIL DISTRICT. By W. Forstner. Min. & Sci. Press, vol 99, p. 566. 2 columns. Map.
- THE WORKING OF OIL-SHALE AT PUM-PHERSTON, SCOTLAND. By W. Caldwell. T. I. M. E., vol. 36, p. 581. 9½ pages. I.
- See also Occurrence of Petroleum.
- Summary of Geology of Quicksilver Deposits of Pacific Slope. By G. F. Becker. U. S. G. S., 8th Ann. Rept., pt 2, pp. 961–985. 1886–87. I.
- See also Occurrence of Quicksilver.
- A Geological Analysis of the Silver Production of the United States in 1906. By W. Lindgren. U. S. G. S., Bull. 340, p. 23. 11 pages. 1907.
- Geology of the Peaks Silver Field, New South Wales. By C. O. G. Larcombe. T. Au. I. M. E., vol. 11, p 122. 6 pages. I.
- SUMMARY OF GEOLOGY OF COMSTOCK LODE AND WASHOE DISTRICT. By G. F. Becker. U. S. G. S, 2d Ann. Rept., pp. 291–330. 1880–81. I.
- GEOLOGY OF THE WHITE PINE MINING DISTRICT, NEVADA M & M., vol. 29, p. 521. 5 columns.
- GEOLOGY OF THE COBALT DISTRICT. E. & M. J., vol 87, p. 1267. 2 columns.
- THE GEOLOGY OF COBALT. E. & M. J., vol. 86, p. 711. 3½ columns.
- GEOLOGY OF THE FREIBERG DISTRICT, GERMANY. E. & M. J, vol. 87, p. 987. 1 column.
- GEOLOGY OF THE GUANAJUATO DISTRICT, MEXICO By C. W. Botsford. E. & M. J., vol 87, p 691. 9½ columns. I.
- GEOLOGY OF THE ZACATECAS DISTRICT, MEXICO. E. & M. J., vol. 86, p. 402. 4 columns. I.

- GEOLOGY OF THE PACHUCA AND REAL DEL MONTE SILVER DISTRICT, MEXICO. E. & M. J., vol. 86, p. 520. 4½ columns.
- GEOLOGY OF THE MINING DISTRICTS OF CHIPUAHUA, MEXICO. By R. M. Bogg. Min. & Sci. Press, vol. 97, p. 152, 4 columns, I.; p. 187, 5½ columns, I.
- GEOLOGY OF HOSTOTIPAQUILLO ORE DEPOSITS. By S. J. Lewis. Min & Sci. Press, vol. 101, p 335. 5½ columns. I
- GEOLOGY OF THE EL TIGRE MINING DISTRICT, MEXICO. M. & M, vol. 29, p. 485 $\frac{3}{4}$ column.
- Geology of the El Doctor Ore Deposits Min. & Sci. Press, vol. 95, p. 242. 1 column.
- See also Occurrence of Silver.
- GEOLOGY OF THE SOUTH AFRICAN TIN FIELDS E. & M. J., vol 89, p 411. 3 columns. I.
- GEOLOGY OF THE CAPE PRINCE OF WALES TIN DEPOSITS Min. & Sci. Press, vol. 95, p. 744. 6 columns. I.
- Tin Mining in Uln Selanger, Federated Malay States. By E. Nightingale. T I M. & M., vol. 17, p. 159. 12½ pages. I.
- See also OCCURRENCE OF TIN.

Fossil Animals and Plants

- Birds with Teeth. By O. C Marsh. U. S G S., 3d Ann Rept, pp. 45-88. 1881-82.
- A REVIEW OF THE NONMARINE FOSSIL MOLLUSCA OF NORTH AMERICA. By C A. White. U. S. G S, 3d Ann. Rept., pp. 403–550. 1881–82. I.
- REVIEW OF THE FOSSIL OSTREIDAE OF NORTH AMERICA AND A COMPARI-SON OF THE LIVING FORMS. By C. A. White. U. S. G. S, 4th Ann. Rept, pp. 273-430 1882-83. I.
- THE GIGANTIC MAMMALS OF THE ORDER DINOCEBATA. By O. C. Marsh. U. S. G. S., 5th Ann. Rept., pp. 243-302. 1883-84.

- FOSSIL BUTTERFLIES OF FLORISSANT. By S. H. Scudder U. S G. S., 8th Ann. Rept, pt. 1, pp. 433-474. 1886-87. I.
- FAUNA OF THE LOWER CAMBRIAN OR OLENELLUS ZONE. By C. D. Walcott. U. S. G. S, 10th Ann. Rept., pt. 1, pp. 509-763. 1888-89. I.
- AMERICAN TERTIARY APHIDÆ. By S H. Scudder. U. S. G. S., 13th Ann. Rept., pt. 2, pp. 341-366. 1891-92. I.
- Dianosaurs of North America. By O. C. Marsh. U. S. G. S., 16th Ann. Rept., pt. 1, pp. 131-414. 1894-95. I.
- GENERAL GEOLOGY AND PALEONTOL-OGY. U. S. G. S., 20th Ann Rept., pt. 2. 953 pages. 1898-99. I.
- DEVONIAN FOSSILS FROM SOUTHWEST-ERN COLORADO: the Fauna of the Ouray Limestone. By G. H. Girty. U. S. G. S., 20th Ann. Rept., pt. 2, pp. 25-81. 1898-99. I.
- THE STRATIGRAPHIC PALEONTOLOGY OF THE POTTSVILLE FORMATION IN THE SOUTHERN ANTHRACITE COAL FIELD, PENNSYLVANIA. By D. White. U. S. G. S., 20th Ann. Rept. pt 2, pp. 749–930. 1898–99. I.
- PALEONTOLOGY OF THE EUREKA DISTRICT. By C. D. Walcott. U. S. G. S., Monograph VIII. 298 pages. I. 1884.
- A BRIEF CONTRIBUTION TO THE GEOLOGY AND PALEONTOLOGY OF NORTHWESTERN LOUISIANA. By T. W. Vaughan. U. S. G. S., Bull. 142. 65 pages. I. 1896.
- STRATIGRAPHY AND PALEONTOLOGY OF UPPER CARBONIFEROUS ROCKS OF KANSAS SECTION. By G. I. Adams, G. H. Girty, and D. White. U. S. G. S., Bull. 211. 123 pages. I. 1903
- SEETCH OF PALMOBOTANY. By L. F Ward. U. S. G. S., 5th Ann. Rept., pp. 357-452. 1883-84. I.
- SYNOPSIS OF FLORA OF LARAMIE GROUP. By L. F. Ward. U. S. G.

- S., 6th Ann. Rept., pp 399-557. 1884-85. I.
- GEOGRAPHICAL DISTRIBUTION OF FOS-SIL PLANTS. By L. F. Ward. U. S. G. S, 8th Ann. Rept, pt. 2, pp. 663– 960. 1886–87. I.
- STATUS OF THE MESOZOIC FLORAS OF THE UNITED STATES. By L. F. Ward. U.S.G. S., 20th Ann. Rept., pt. 2, pp. 211-748. 1898-99. I.
- CONTRIBUTIONS TO THE KNOWLEDGE OF THE OLDER MESOZOIC FLORA OF VIRGINIA. By W. M. Fontaine. U S. G. S, Monograph VI. 144 pages. I. 1883.
- Fossil Flora of the Lower Coal Measures of Missouri. By D. White. U. S. G. S., Monograph XXXVII. 467 pages. I. 1899.

Geologic Progress and Studies

- Geology Applied to Mining. By T. A. Rickard. Min. & Sci. Press, vol. 100, p. 479, 6 columns; p. 516, 52 columns.
- THE POSSIBILITIES AND LIMITATIONS OF GEOLOGICAL SURVEY WORK AS APPLIED TO THE MINING INDUSTRY. By G. O. Smith. Min. & Sci. Press, vol. 95, p. 652. 6 columns.
- Geology and Mining. By H. Bergmann. Min. Mag., vol. 10, p. 299, 8 pages; p. 365, 4 pages.
- On the Study of Geology and Mineralogy as Sources of Interesting and Valuable Information. By G. Henwood. Min. Mag., vol. 8, p. 144. 12 pages.
- RADIOACTIVITY OF THE THERMAL WATERS OF YELLOWSTONE NATIONAL PARK. By H. Schlundt and R. B. Moore. U. S. G. S., Bull. 395. 35 pages. I. 1909.
- Chart of Igneous Rocks. By S. Croasdale. Min. & Sci. Press, vol. 99, p. 598. 2½ columns.
- DEFINITIONS OF IGNEOUS ROCKS.

 Min. & Sci. Press, vol. 97, p. 56.
 12 columns.

- ERUPTIVE ROCKS OF ELECTRIC PEAK AND SEPULCHRE MOUNTAIN, YEL-LOWSTONE NATIONAL PARK. By J. P. Iddings. U. S. G. S., 12th Ann Rept., pt. 1, pp. 569-664. 1890-91 I.
- PRE-CAMBRIAN IGNEOUS ROCKS OF THE UNKAR TERRANE, GRAND CANYON OF THE COLORADO, ARIZONA By C. D. Walcott U. S G. S., 14th Ann. Rept, pt. 2, pp 497-524. 1892-93. I
- THE RELATIONS OF THE TRAPS OF THE NEWARK SYSTEM IN THE NEW JERSEY REGION. By N. H. Darton U. S. G. S, Bull. 67. 82 pages. I. 1890.
- SOME LAVA FLOWS OF THE WESTERN SLOPE OF THE SIERRA NEVADA, CALIFORNIA. By F. L Ransome. U. S. G. S., Bull. 89. 74 pages I. 1898
- LACCOLITHS OF THE BLACK HILLS. By T A. Jaggar, Jr. U. S G S, 21st Ann. Rept, pt. 3, pp. 163-303. 1899-1900 I
- A LATE VOLCANIC ERUPTION IN NORTH-ERN CALIFORNIA AND ITS PECULIAR LAVA. By J. S. Diller. U. S. G. S., Bull. 79. 33 pages. I. 1891.
- THE LAWS OF INTRUSION. By B Stevens. T. A. I. M E., vol. 41, p. 650. 20½ pages. I.
- EXPERIMENTS ILLUSTRATING INTRUSION AND EROSION. By E. Howe U. S G. S, 21st Ann Rept., pt. 3, pp. 163-303. 1899-1900 I.
- Association of Igneous Intrusions with Idaho Ore Bodies By R. N. Bell. E. & M. J, vol 85, p. 127. 11 columns.
- NOTE ON THE EFFECT OF AN IGNEOUS DYKE ON A NATAL COAL-SEAM. By G. H. Stanley. T. I. M. E., vol. 36, p. 220. 2\frac{1}{2} pages.
- THE DISTRIBUTION OF THE ELEMENTS IN IGNEOUS ROCKS. By H. S. Washington. T. A. I. M. E., vol. 39, p. 735. 30 pages.

- THE IGNEOUS CHARACTER OF THE CARBONIFEROUS ROCKS OF THE TOKATEA GOLDFIELD, CAPE COVILLE PENINSULA. By A. M'Kay. T. Au. I. M. E., vol. 9, p. 195. 10 pages.
- On a Group of Volcanic Rocks from the Tewan Mountains, New Mexico By J. P. Iddings U S. G. S., Bull. 66. 34 pages. 1890
- VOLCANIC ROCKS OF SOUTH MOUNTAIN, PENNSYLVANIA By F Bascom. U. S. G S, Bull. 136 124 pages. I. 1896
- LODES IN THE TERTIARY ERUPTIVES OF COLORADO. By T. A Rickard. Min. & Sci. Press, vol. 95, p. 180. 4\frac{3}{2} columns. I.
- THE IGNEOUS ROCKS OF TASMANIA.

 By W H Twelvetrees and W. F.

 Petterd. T. Au. I. M. E, vol. 5,
 p. 98. 16 pages I.
- ON THE DEVELOPMENT OF CRYSTAL-LIZATION IN THE IGNEOUS ROCKS OF WASHOE, NEVADA, WITH NOTES ON THE GEOLOGY OF THE DISTRICT. By A. Hague and J P. Iddings U. S. G. S., Bull 17. 44 pages 1885.
- THE GABBROS AND ASSOCIATED HORN-BLENDE ROCKS OCCURRING IN THE NEIGHBORHOOD OF BALTIMORE, MARYLAND By G. H. Williams. U. S G S, Bull 28. 78 pages. I. 1886.
- THE GABBROS AND ASSOCIATED ROCKS IN DELAWARE. By F. D. Chester. U S G S., Bull 59. 45 pages I 1890
- THE GNEISSES, GABBRO-SCHISTS, AND ASSOCIATED ROCKS OF SOUTHWESTERN MINNESOTA By C. W. Hall U. S. G. S., Bull. 157. 160 pages I 1899.
- THE ERUPTIVE AND SEDEMENTARY ROCKS ON PIGEON POINT, MINNESOTA, AND THEIR CONTACT PHENOMENA. By W. S. Bayley. U. S. G. S, Bull. 109. 121 pages. I. 1893.
- ROCKS OF SIERRA NEVADA. By H. W. Turner. U. S. G. S., 14th Ann.

- Rept., pt. 2, pp. 435-495. 1892-93. I.
- GENERAL RELATIONS OF GRANITIC ROCKS IN THE MIDDLE ATLANTIC PREDMONT PLATEAU. By G. H. Williams. U. S. G. S, 15th Ann. Rept, pp. 651-684. 1893-94. I.
- FLOW AND FRACTURE OF ROCKS AS RELATED TO STRUCTURE. By L. M. Hoskins. U. S. G. S., 16th Ann. Rept., pt. 1, pp. 571-874. 1894-95. I.
- On Hypersthene Andesite and on Triclinic Pyroxene in Augitic Rocks. By W. Cross. U. S. G. S., Bull. 1. 42 pages I. 1883.
- THE GREENSTONE-SCHIST AREAS OF THE MENOMINEE AND MARQUETTE REGIONS OF MICHIGAN By G. H. Williams. U. S G. S., Bull. 62. 241 pages. I. 1890
- THE OCCURRENCE OF PRIMARY QUARTZ IN CERTAIN BASALTS. By J. P. Iddings. U. S. G. S., Bull. 66. 34 pages. 1890.
- THE CAMBRIAN ROCKS OF PENNSYLVANIA. By C. D. Walcott. U. S G. S., Bull 134. 43 pages. I 1896.
- THE GREEN SCHISTS AND ASSOCIATED GRANITES AND PORPHYRIES OF RHODE ISLAND By B. K. Emerson and J. H. Perry U S. G. S, Bull 311. 74 pages. I. 1907.
- GEOLOGY AND PEGMATITES AND ASSOCIATED ROCKS OF MAINE, INCLUDING FELDSPAR, QUARTZ, MICA, AND GEM DEPOSITS. By E. S. Bastin. U. S. G. S., Bull. 445. 152 pages. I. 1911.
- GEOLOGY OF FELDSPAR, QUARTZ, AND MICA. By E. S. Bastin. U. S. G. S. Bull. 445. 152 pages I. 1911
- QUALITY OF BLUESTONE IN THE VICIN-ITY OF THE ASHOKAN DAM. By C. P. Berkey. Sch. Mines Quart., vol. 29, p. 149 11 pages.. I
- CONCERNING CERTAIN PERFORATED ROCKS IN THE COOLGARDIE DISTRICT. By F D. Johnson. T. Au. I. M. E., vol. 4, p. 42. 2½ pages.

- NOTES ON THE ARCHEAN ROCKS OF MEXICO. E. & M. J., vol 90, p. 821. 4 columns.
- SECOND EXPEDITION TO MOUNT ST. ELIAS. By I. C. Russell. U. S. G S., 13th Ann Rept, pt 2, pp. 1– 91. 1891–92. I.
- LACCOLITHIC MOUNTAIN GROUPS OF COLORADO, UTAH, AND ARIZONA. By W. Cross. U. S. G. S, 14th Ann. Rept., pt 2, pp 157-241. 1892-93. I.
- PRELIMINARY REPORT ON THE GEOLOGY OF THE ARBUCKLE AND WICHITA MOUNTAINS, IN INDIAN TERRITORY AND OKLAHOMA. By J. A Taff. U S G. S., Professional Paper 31. 97 pages. I 1904.
- A GEOLOGICAL RECONNAISSANCE ACROSS THE BITTERROOT RANGE AND CLEARWATER MOUNTAINS IN MONTANA AND IDAHO. By W. Lindgren. U S G. S., Professional Paper 27. 123 pages. I 1904.
- Geology of the Bighorn Mountains. By N. H. Darton. U. S. G. S., Professional Paper 51. 129 pages. I. 1906.
- GEOLOGY OF THE GREEN MOUNTAINS IN MASSACHUSETTS. By R. Pumpelly and others. U. S. G. S., Monograph XXIII. 206 pages. I. 1894.
- A GEOLOGICAL RECONNAISSANCE
 ACROSS THE CASCADE RANGE NEAR
 THE FORTY-NINTE PARALLEL By
 G O. Smith and F. C. Calkins. U.
 S. G. S., Bull 235. 103 pages. I.
 1904.
- PETROGRAPHY AND GEOLOGY OF THE IGNEOUS ROCKS OF THE HIGHWOOD MOUNTAINS, MONTANA. By L. V. Pirsson. U. S. G. S., Bull 237. 208 pages. I. 1905.
- GEOLOGY OF THE BURRO MOUNTAIN, TURQUOISE DISTRICT, NEW MEXICO. E. & M. J., vol. 86, p. 843 3 columns.
- GEOLOGY OF THE SIERRA NEVADA, OR CALIFORNIA RANGE. By J. B.

- Trask. Min Mag, vol 1, p. 6. 15 pages.
- THE GEOLOGY OF ASCUTNEY MOUNTAIN, VERMONT. By R. A. Daly. U. S. G. S., Bull. 209 122 pages. I. 1903.
- MECHANICS OF APPALACHIAN STRUCTURE. By B. Willis U S G S., 13th Ann. Rept, pt. 2, pp. 211–281. 1891–92. I.
- TOPOGRAPHIC DEVELOPMENT OF THE KLAMATH MOUNTAINS By J. S. Diller. U S. G. S, Bull. 196. 69 pages I. 1902.
- A PRELIMINARY PAPER ON THE GEOLOGY OF THE CASCADE MOUNTAINS IN NORTHERN WASHINGTON. By I. C. Russell. U. S G. S., 20th Ann. Rept., pt. 2, pp. 83–210. 1898–99 I.
- STRUCTURE OF MONUMENT MOUNTAIN, GREAT BARRINGTON, MASSACHU-SETTS. By T N. Dale U. S. G. S., 14th Ann. Rept, pt. 2, pp. 551– 565. I
- STRUCTURAL DETAILS IN THE GREEN MOUNTAIN REGION AND IN EASTERN NEW YORK By T. N. Dale. U. S. G. S., Bull 195. 22 pages. I. 1902.
- STRUCTURAL DETAILS IN THE GREEN MOUNTAIN REGION AND IN EASTERN NEW YORK. By T. N. Dale. U. S. G. S., 16th Ann Rept., pt. 1, pp. 543–570. 1894–95.
- ON THE STRUCTURE OF THE RIDGE BETWEEN THE TACONIC AND GREEN MOUNTAIN RANGES, VERMONT. By T. N. Dale. U. S. G. S., 14th Ann. Rept., pt. 2, pp. 525-549. 1892-93. I.
- ALTITUDES BETWEEN LAKE SUPERIOR AND THE ROCKY MOUNTAINS. By W. Upham. U S. G. S., Bull. 72. 229 pages. 1891.
- AVERAGE ELEVATION OF THE UNITED STATES. By H. Gannett. U. S. G. S., 13th Ann Rept., pt. 2, pp. 283–289. 1891–92. I.
- A DICTIONARY OF ALTITUDES IN THE United States. By H. Gannett.

- U. S. G S., Bull 5 325 pages. 1884
- A DICTIONARY OF ALTITUDES IN THE UNITED STATES By H. Gannett. U. S G S, Bull 76 393 pages. 1891.
- A DICTIONARY OF ALITTUDES IN THE UNITED STATES. By H Gannett. U. S G S, Bull. 160. 775 pages. 1899
- A DICTIONARY OF ALITTUDES IN THE UNITED STATES By H Gannett. U. S G. S., Bull 274. 1072 pages. 1906.
- LATITUDES AND LONGITUDES OF CERTAIN POINTS IN MISSOURI, KANSAS, AND NEW MEXICO. By R. S. Woodward. U. S. G. S., Bull. 49. 133 pages. 1889.
- ELEVATIONS IN THE DOMINION OF CANADA. By J. W. Spencer. U. S. G. S., Bull. 6. 43 pages. 1884.
- ALTITUDES IN ALASKA. By H Gannett. U S G S, Bull 169 13 pages 1900
- ROCK CLEAVAGE By C. K. Leith. U S G S, Bull 239. 216 pages. I. 1905
- THE THEORY OF THE FORMATION OF CLEAVAGE LINES E & M. J, vol. 85, p. 212 1 column.
- SYMMETRIC STRUCTURE IN LIMESTONE AND LAVAS. By R. H. Chapman. Min. & Sci. Press, vol. 98, p. 623. 3 columns. I.
- EXPERIMENTS ON SCHISTOSITY AND SLATY CLEAVAGE. By G F Becker. U. S. G. S., Bull. 241. 34 pages. I. 1904.
- NOMENCLATURE OF SHOOTS. By W. C. W Pearce. T. Au I. M E., vol. 13, p. 129 3½ pages.
- SURFACE ALTERATIONS OF GOLD ORES. By A. D. Brokaw. M. & M., vol. 31, p. 687. 3 columns.
- SURFACE INDICATIONS OF ORE-SHOOTS IN DEPTH. By W. H. Storms. Min. & Sci. Press, vol. 101, p. 537. 4 columns.

- Surface Indications of Ore-Shoots in Depth. By C Janin. Min & Sci. Press, vol 101, p. 679, 2 columns, I; p. 713, 1½ columns.
- OUTCROP OF OREBODIES. By W. H. Emmons. Min & Sci. Press, vol 99, p. 751, 8 columns, I.; p. 782, 11½ columns, I
- SUGGESTIONS FOR FIELD OBSERVA-TIONS OF ORE DEPOSITS. By S F. Emmons. Min. & Sci. Press, vol 95, p. 18. 5½ columns.
- ORE DEPOSITS IN SERPENTINE. By W Forestner. Min. & Sci Press, vol. 95, p. 121. 3½ columns.
- SOME REMARKS ON THE METALLIF-EROUS VEINS OF THE SOUTH By O. M. Lieber. Min. Mag, vol 5, p. 306. 5 pages. I.
- ORE SHOOTS AT BUTTE, MONTANA BY R. H. Sales. E. & M. J., vol. 86, p. 226. 3\frac{3}{4} columns.
- THE BLOW-OUT By F. L. Garrison. Min. & Sci. Press, vol. 95, p 406, 3 columns, I.; p. 458, \(\frac{1}{3}\) column.
- An Interesting Stockwork By I. F. Lancks. Min & Sci. Press, vol. 101, p. 540 1½ columns. I.
- STOCKWORKS By J H Collms. Min. & Sci Press, vol. 101, p 774. 1 column.
- DIP AND PITCH. By R. W Raymond. T. A. I. M. E., vol. 39, p. 326. 2 pages.
- DIP AND PITCH: Discussion of the paper of Dr. R. W Raymond, p. 326. T. A I. M. E., vol 39, p. 898. 18 pages. D.
- ROCK OXIDATION AT CRIPPLE CREEK. By P. Argall. Min. & Sci. Press, vol. 96, p. 883. 9 columns I
- METAMORPHIC RANGES IN SONORA, MEXICO By F. J. H. Merrill. Min. & Sci. Press, vol 97, p. 296. 1 column.
- A TREATISE ON METAMORPHISM. By C. R. Van Hise. U. S. G. S., Monograph XLVII. 1286 pages. I. 1904.

- DYNAMIC METAMORPHISM IN ERUPTIVE ROCKS. By G. H. Wilhams. U S. G. S., Bull 62. 241 pages. I. 1890.
- EXPLORATION OF CONTACT META-MORPHIC ORE DEPOSITS By C A. Stewart E. & M. J, vol. 90, p. 513. 6½ columns.
- EROSION ON THE NORTHUMBERLAND STRATA. By W. C. Milner. J. M. Soc. N S., vol 15, p 111 4½ pages
- RATE OF RECESSION OF THE NIAGARA FALLS. By G. K. Gilbert. U. S. G. S., Bull. 306. 31 pages I. 1907.
- LAND SCULPTURE BY WIND-BLOWN SAND. E. & M. J., vol. 85, p. 687. 2½ columns. I.
- DENUDATION AND EROSION IN THE SOUTHERN APPALACHIAN REGION AND THE MONONGAHELA BASIN. By L C. Glenn. U. S. G S., Professional Paper 72. 137 pages. I. 1911.
- NOTES ON THE STRATIGRAPHY OF CALI-FORNIA By G. F. Becker U. S. G. S., Bull. 19. 28 pages 1885.
- Tertiary Revolution in Topog-RAPHY OF PACIFIC COAST. By J. S. Diller U. S. G. S., 14th Ann Rept., pt. 2, pp. 397–434. 1892–93. I.
- TACONIC PHYSIOGRAPHY. By T. N. Dale. U. S. G. S., Bull 272. 52 pages. I. 1905.
- Geological History of Harbors By N. S. Shaler U. S. G. S., 13th Ann Rept., pt. 2, pp. 93–209. 1891–92 I.
- ON THE FORM AND POSITION OF THE SEA LEVEL. By R. S. Woodward. U. S. G. S, Bull. 48. 88 pages. 1888
- THE DRUMLINS OF SOUTHEASTERN WISCONSIN By W. C. Alden. U. S. G. S., Bull. 273. 46 pages. I. 1905.
- Subabbial Decay of Rocks and Origin of the Red Color of Certain Formations. By I. C. Russell. U. S G. S., Bull. 52. 65 pages. I. 1889.

- ORIGIN AND NATURE OF SOILS. By N.S. Shaler U.S. G.S., 12th Ann. Rept, pt 1, pp 213-345. 1890-91. I.
- Unconformity and Deposits. By Otto Ruhl. Min. & Sci Press, vol 96, p. 778. 3 columns I.
- THE CAUSES OF CLIMATIC, GEOLOGI-CAL, AND GEOGRAPHICAL CHANGES UPON THE EARTH. By J. M. POTTER. T. Au. I M. E., vol. 3, p. 21. 35 pages
- PLAN AND SCOPE OF THE PROPOSED INVESTIGATIONS OF STRUCTURAL MATERIALS UNDER THE AUSPICES OF THE UNITED STATES GEOLOGICAL SURVEY By J. A Holmes and R. L. Humphrey. Soc. P. E. E., vol. 13, p. 304. 10 pages.
- THE VISCOSITY OF SOLIDS. By C. Barus. U. S. G. S., Bull. 73. 139 pages. I 1891.
- ON THE THERMO-ELECTRIC MEASURE-MENT OF HIGH TEMPERATURES. By C. Barus U. S. G S, Bull. 54. 313 pages I. 1889.
- THE VOLUME THERMODYNAMICS OF LIQUIDS. By C. Barus. U. S. G. S. Bull. 96 100 pages. I. 1892.
- THE COMPRESSIBILITY OF LIQUIDS. By C. Barus. U S. G. S., Bull. 92. 96 pages. I. 1892.
- THE MECHANISM OF SOLID VISCOSITY. By C. Barus U. S. G. S., Bull. 94. 138 pages 1892.
- HIGH TEMPERATURE WORK IN IGNEOUS
 FUSION AND EBULLITION, CHIEFLY
 IN RELATION TO PRESSURE. By C.
 Barus. U S. G. S., Bull. 103. 57
 pages. I. 1893.
- METEOR CRATER. By J. B. Hastings. Min. & Sci Press, vol. 98, p. 523. 4² columns. I.
- See also Decomposition of Coal. See also Indexes, Textbooks, etc.

Types of Veins and Examples

THE LAWS OF FISSURES. By B. Stevens. T. A. I M. E., vol. 40, p. 475. 17 pages. I.

- THE TRAP DIKES OF THE LAKE CHAM-PLAIN REGION By J. F. Kemp and O F. Marsten U S. G S, Bull. 107. 62 pages I. 1893.
- DIKES AND FISSURES AT PIOCHE, NEVA-DA. E. & M J., vol 88, p. 546. 1½ columns.
- SILVER ISLET VEIN. Min & Sci. Press, vol. 98, p 729 1 column
- Lodes and Veins in the Manhattan District, Nevada. E. & M. J, vol. 88, p. 82. 2 columns.
- LODES IN THE TERTIARY ERUPTIVES OF COLORADO By T. A Rickard. Min & Sci Press, vol 95, p. 180. 42 columns. I.
- Veins and Vein Mining. Min. Mag., vol. 10, p. 345. 18 pages. I.
- Notes on Granite Veins in Clay, Slates (Elvans), Mineral Deposits, Veins, Lodes Min. Mag., vol. 10, p. 306. 6 pages. I.
- A Fragmentary Contribution to the Vein Geology of the Southern States Min. Mag, vol. 10, p. 108. 5 pages I.
- THE VEIN SYSTEM OF THE STANDARD MINE, BODIE, CALIFORNIA. By R. G. Brown. T A. I. M. E, vol. 38, p. 343. 15 pages. I.
- THE VEIN SYSTEM OF THE STANDARD MINE, BODIE, CALIFORNIA: DISCUSSION of the paper of R. Gilman Brown, Trans., vol. 38, p. 343 T A. I. M. E, vol. 39, p. 795. 1½ pages.
- FISSURE-VEINS IN GRANITE, SCHISTS, ETC, MEXICAN SILVER MINES T. A. I. M. E., vol. 39, p. 361. 6½ pages.
- GOLD-SILVER VEINS OF OPHIR, CALIFORNIA. By W. Lindgren. U. S. G. S., 14th Ann. Rept., pt. 2, pp. 243-284. 1892-93. I.
- VEINS OF TANGIER, NOVA SCOTTA. Min. & Sci. Press, vol. 95, p. 430. 4 columns. I.
- Veins of Treasure Mountain, Colorado. Min. & Sci. Press, vol. 97, p. 23. 5½ columns. I.

- MINERAL-VEIN FORMATION AT BOULber Hot Springs, Montana By W. H. Weed. U. S. G. S., 21st Ann. Rept., pt 2, pp. 227-255. 1899-1900. I.
- GEOLOGY AND VEIN-PHENOMENA. T. A. I M. E., vol. 41, p 613. 8 pages. D.
- ARTIFICIAL VEIN FORMATION. By R. C. Canby. E & M. J, vol. 85, p. 719. 2 columns.
- FEATURES OF A VEIN FORMATION IN NICARAGUA: Gold and Silver Veins. By H. E. West. E. & M. J., vol. 87, p. 1130 9½ columns. I.
- VEIN STRUCTURE IN THE MONUMENT MINE, IDAHO. Min. & Sci. Press, vol. 98, p 557. 3\frac{1}{3} columns. I.
- VEIN STRUCTURE IN THE WONDER DISTRICT, NEVADA. E & M. J., vol. 87, p. 291. 3 columns.
- REMARKS ON THE CHANGES WHICH TAKE PLACE IN THE STRUCTURE AND COMPOSITION OF MINERAL VEINS NEAR THE SURFACE, WITH PARTICULAR REFERENCE TO THE EAST TENNESSEE COPPER MINES By J D. Whitney. Min. Mag., vol. 5, p. 24. 4½ pages.

Caverns and Natural Bridges

- THE MAMMOTH CAVE OF KENTUCKY. By J. H. Gardner. M. & M., vol. 31, p. 720. 6 columns. I.
- DEUTSCHMAN'S CAVE, NEAR GLACIER, BRITISH COLUMBIA, CANADA. By W. S. Ayres. T. A I. M. E., vol. 38, p. 857. 20½ pages. I.
- THE GROTTO OF ADELSBERG. Min. Mag., vol. 9, p. 542. 6½ pages.

Faults: Rules Regarding Them, Etc.

- THE FAULT PROBLEM. By T. C. Chamberlin. Min. & Sci. Press, vol. 96, p. 172. 12 columns.
- FAULTS AS RECEPTACLES FOR MINERAL DEPOSITS T. Au. I. M. E., vol. 4, p. 32. 2½ pages. I.

- RELATION OF FAULTS TO ORE DE-POSITS E. & M. J., vol. 86, p. 1159.
- THE EXTRAORDINARY FAULTING AT THE BERLIN MINE, NEVADA. By E Daggett T. A. I M. E., vol 38, p. 297. 16 pages. I.
- FAULTING IN THE BULLFROG DISTRICT, NEVADA. By W H Emmons and G. H Garrey. Min. & Sci Press, vol. 100, p. 931, 5½ columns, I.; vol 101, p. 46, 5½ columns, I.
- FAULT LODES IN THE RANDSBURG QUADRANGLE, CALIFORNIA. Min. & Sci Press, vol. 101, p. 533 1½ columns.
- FAULTING IN THE RED CLOUD MINE. By H W Turner. Min. & Sci. Press, vol. 95, p. 747. 3½ columns I.
- FAULTING AND VEIN-FORMATION IN THE ZACATECAS DISTRICT E. & M. J., vol. 87, p. 1227. 1 column. I.
- FAULTING AND VEIN STRUCTURE IN THE CRACKER CREEK GOLD DISTRICT, BAKER COUNTY, OREGON. By J. T. Pardee U. S. G S, Bull 380, p. 85. 8 pages. I. 1908.

Air-Blasts, Volcanoes and Earthquakes

- EARTHQUAKE FORECASTS. By G. K. Gilbert. Min. & Sci. Press, vol. 98, p. 168. 8 columns.
- EARTHQUAKES IN CALIFORNIA. By J. E Keeler U. S. G. S., Bull. 68, 25 pages, 1890; Bull. 95, 31 pages, 1892; Bull. 112, 57 pages, 1893, Bull. 114, 23 pages, 1894; Bull 129, 25 pages, 1895; Bull. 147, 23 pages, 1896; Bull. 155, 47 pages, 1898, Bull. 161, 31 pages, 1899.
- THE SAN FRANCISCO EARTHQUAKE AND FIRE OF APRIL 18, 1906, AND THEIR EFFECTS ON STRUCTURES AND STRUCTURAL MATERIALS. By G. K. Gilbert and others. U. S. G. S., Bull. 324 170 pages. I. 1907.
- RECENT EARTH MOVEMENT IN THE GREAT LAKES REGION. By G. K. Gilbert. U. S. G. S., 18th Ann.

- Rept., pt 2, pp. 595-647 1896-97. I
- THE CHARLESTON EARTHQUAKE OF AUGUST 31, 1886. By C. E. Dutton. U. S G S, 9th Ann. Rept, pp. 203– 528. 1887–88 I.
- THE JAMAICA EARTHQUAKE. Min & Sci. Press, vol. 95, p. 690 $\frac{2}{3}$ column
- EARTH MOVEMENTS AT BUTTE, MONTANA. By R. H Chapman. Min. & Sci. Press, vol 96, p. 493 1½ columns.
- THE EARTHQUAKE FIRE. By T. A. Rickard. Min & Sci Press, vol. 100, p 718. 13½ columns. I.
- EXPLOSIVE ROCK Min. & Sci. Press, vol. 96, p. 387. ½ column.
- EARTHQUAKES AND THEIR RELATION TO MINE EXPLOSIONS E & M J., vol. 87, p. 411. 9 columns.
- Notes on the Effect of Earthquakes on Deep Underground Water Circulation. By W. H. Yeandle E. & M. J, vol 88, p. 871. 1²/₃ columns
- RECENT VOLCANIC ERUPTIONS IN BERING SEA By A S. Eakle. Mm. & Sci. Press, vol. 96, p. 353. 17 columns I.
- Hawaiian Volcanoes. By C. E. Dutton. U. S. G. S., 4th Ann. Rept., pp. 75–219. 1882–83. I.

Theory of Ore Deposits, Origin of Coal, Petroleum, Etc.

- THEORY OF MINERAL VEINS. By J. Le Conte. Min & Sci. Press, vol. 22, p. 23. 4 columns. I.
- THEORY OF ORE DEPOSITS. Min. & Sci Press, vol. 20, p. 172. 12 columns.
- Some Indications of Ore Deposits. By E. Lidgey. T. Au. I. M. E., vol. 4, p. 110. 10 pages.
- RECEPTACLES FOR VALUABLE MINERAL DEPOSITS. By F. D Power T. Au. I. M. E, vol. 4, p. 6. 28 pages. I.

- THE CLASSIFICATION OF VALUABLE MINERAL DEPOSITS. By F. D. Power. T. Au I M E., vol 1, p. 109. 20½ pages.
- A STUDY OF SOME ORE DEPOSITS BY F D. Johnson T. Au I. M E., vol 1, p. 28. 7 pages I
- GENERAL OBSERVATIONS ON THE FOR-MATIONS OF METALLIFEROUS VEINS. By B Cotta Min Mag., vol. 3, p 386, 5 pages; p. 465, 6 pages.
- MAGMATIC WATERS. By H W Hixon. J C. M I, vol. 10, p. 301. 20 pages.
- CRITERIA OF DOWNWARD SULPHIDE ENRICHMENT By F. L Ransome. J C. M. I., vol. 13, p. 393. 14 pages.
- THE FORMATION AND ENRICHMENT OF ORE-BEARING VEINS By G. J. Bancroft. T A. I. M. E., vol 38, p 245. 24 pages.
- Volcanic Waters. By J. B. Hastings T. A. I. M. E, vol. 39, p 129. 10 pages.
- THE FORMATION AND ENRICHMENT OF ORE-BEARING VEINS. By G J. Bancroft. T. A. I M. E., vol. 40, p 809. 10 pages.
- METALLOGRAPHIC STUDY OF ORE DE-POSITS. P C M. & M. Soc S A, vol. 9, p 279 2 columns.
- Causes of Ore-Shoots Min. Mag, London, vol. 2, p. 459. 1 column.
- SEQUENCE OF ORE SHOOTS AND BONANZAS. By A. Aitken M. & M, vol. 30, p 274. 2 columns.
- THE DETECTION OF MINUTE TRACES OF GOLD IN COUNTRY ROCK. By A. R. Andrew T. I. M. & M., vol 19, p. 276. 22 pages.
- On Secondary Enlargements of Mineral Fragments in Certain Rocks. By R. D. Irving and C R. Van Hise. U S. G S., Bull 8. 56 pages. I. 1884.
- POPULAE FALLACIES REGARDING PRECIOUS-METAL ORE DEPOSITS. By A. Williams, Jr. U. S. G. S., 4th Ann. Rept., pp. 253–271. 1882– 83.

- Association of Magnetite With Sulphides in Mineral Deposits. By J. B. Hastings. Min. & Sci. Press, vol. 97, p. 333, 4 columns; p. 358, 3½ columns.
- DIFFUSION AS A FACTOR IN ORE DEP-OSITION. By L T Wright Min. & Sci Press, vol. 96, p. 844. 4 columns I.
- A THEORY OF ORE DEPOSITION. By H V Winchell. Min. & Sci Press, vol. 96, p 385. 4 columns.
- TENDENCIES IN THE STUDY OF ORE DEPOSITS. By W. Lindgren. Min. & Sci. Press, vol. 96, p. 567. 8½ columns.
- A THEORY OF ORE DEPOSITION. By J. E. Spurr. Min. & Sci. Press, vol. 96, p. 261. 9½ columns.
- DIFFUSION AS A FACTOR IN ORE DEP-OSITION. By C De Kalb Min. & Sci. Press, vol 96, p 226. 27 columns.
- METAL DISTRIBUTIONS IN THE VEINS OF SCANDINAVIA. By H Sjogren. Min & Sci. Press, vol 98, p. 159. 4 columns. D.
- DEVELOPMENT OF THE MODERN THEO-RIES OF ORE DEPOSITION. By S F. Emmons. Min & Sci Press, vol 99, p. 400 8 columns
- Ores Formed by Magmatic Segregation. By F. L Gartison Min. & Sci. Press, vol 98, p. 451. 111 columns
- ECONOMICS OF SECONDARY ENRICHMENT. By A M. Finlayson. Min & Sci. Press, vol 101, p 71, 8½ columns; p. 111, 6 columns
- Genesis of Ore. By J. Le Conte Mm. & Sci. Press, vol. 100, p 833. 3½ columns.
- THEORIES OF ORE GENESIS OF FIFTY YEARS AGO. By S. F. Emmons. Min. & Sci. Press, vol. 100, p. 739. 8 columns.
- THEORY OF ORE DEPOSITION. Min. & Sci Press, vol. 100, p. 424, 8 columns; p. 450, 5\frac{2}{3} columns.

- MINERAL IN UNDERGROUND WATERS.

 Min. & Sci Press, vol. 95, p 590.

 1½ columns.
- ORE DEPOSITION. By G J Bancroft. Min. & Sci. Press, vol. 95, p. 581. 2 columns.
- THE RELATION OF ORE DEPOSITION TO PHYSICAL CONDITIONS. By W. Lindgren. Min & Sci Press, vol 95, p. 207. 8 columns.
- THE GENESIS OF ORES. By H V. Winchell. Min. & Sci. Press, vol. 95, p. 55. 67 columns.
- LOCUS OF VADOSE ORE DEPOSITION. By C. R Keyes. E. & M. J, vol. 87, p 857. 3 columns.
- The Ultimate Source of Ores. By C. R. Keyes. T. A. I M. E., vol. 41, p. 139. 24 pages
- AN INSTANCE OF SECONDARY IMPOVER-ISHMENT. By H. H. Knox T I M. & M., vol. 18, p. 273. 18 pages. I.
- A THEORY OF VOLCANIC ACTION AND ORE DEPOSITS, THEIR NATURE AND CAUSE. By H W Hixon. T. I M. & M., vol 18, p. 202, 18 pages, I.; p. 256, 16 pages
- GOLD IN SEA WATER. P C M. & M. Soc. S. A., vol. 6, p. 93. ½ column.
- GOLD AND SILVER IN THERMAL SPRINGS Min & Sci. Press, vol. 96, p 562. ½ column
- THE PRESENCE OF GOLD AND SILVER IN DEEP-SEA DREDGINGS. By L. Wagoner. T A I. M. E, vol. 38, p. 704. 1 page.
- CLASSIFICATION OF MEXICAN ORE DEPOSITS. E & M. J, vol 88, p. 692. 1½ columns.
- "Some Notes on the Origin of Asbestos" By A E Bartow J. C. M. I, vol. 13, p. 438. 5½ pages.
- See also Occurrence of Asbestos.
- GENESIS OF THE VIRGINIA BARITE DEPOSITS. By T. L. Watson T. A. I. M. E., vol. 38, p. 731. 1 page.
- ORIGIN OF THE MISSOURI BARITE. By A A. Steel T. A. I. M. E., vol. 40, p. 721. 6 pages. I.

- See also OCCURRENCE OF BARITE.
- BORAX DEPOSITS OF THE UNITED STATES. By C. R. Keyes T. A. I. M. E, vol. 40, p. 674. 36½ pages I. See also Occurrence of Borax.
- THE ALTERATION OF VEGETABLE MAT-TER INTO COAL. By D. B. Dowling. J. C. M. I, vol. 13, p. 180. 9½ pages.
- THE ORIGIN OF COAL E. & M. J, vol. 86, p. 238 11 columns.
- THE ORIGIN OF COAL. By H. M. Chance E & M. J, vol. 86, p. 27. 5 columns.
- METAMORPHISM OF COAL: Formation of Anthracite and Natural Coke. Min & Sci Press, vol. 95, p 59.
 decolumn.
- REMARKS ON THE ORIGIN OF COAL FIELDS, AND THE TIME REQUIRED FOR THEIR FORMATION. By C. Lyell. Min. Mag, vol. 1, p 121. 5 pages.
- On the Mode of Formation of Cannel Coal. By J. S. Newberry Min. Mag., vol. 9, p 352. 3 pages.
- FOSSIL TREE IN THE ARLEY MINE AT CHEQUERBENT COLLIERY. T. I. M. E, vol. 37, p 174. 2 pages.
- See also OCCURRENCE OF COAL.
- CHINA CLAY: Its Nature and Origin. By G. Hickling. T. I. M. E., vol. 36, p. 10. 25 pages. I.
- See also Occurrence of Workable Clays.
- SCIENTIFIC STUDY OF COPPER DE-POSITS. By A. J. Sale. M. & M, vol. 31, p. 684. 4½ columns. I.
- Some New Points in the Geology of Copper Ores. By J. F. Kemp. J. C. M. I, vol. 10, p. 251. 5 pages.
- Genesis of the Kennicott Copper Mine, Alaska. E. & M J., vol. 89, p. 1226 1 column
- THE MIAMI-INSPIRATION ORE-ZONE. By C. F. Tolman, Jr. Min. & Sci. Press, vol. 99, p. 646. 92 columns. I
- THE GENESIS OF THE MOUNT LYELL ORES. By J W. Gregory. T. Au. I. M. E., vol. 10, p. 145. 12 pages. I.

- GENESIS OF COPPER ORES OF SHASTA COUNTY, CALIFORNIA. E. & M. J., vol. 88, p. 396 ½ column.
- Genesis of the Evergreen Copper Deposit, Colorado By E A. Ritter T. A I M E., vol. 38, p. 757. 9 pages. I
- THEORY OF DEPOSITION OF THE WHITE KNOB COPPER DEPOSITS, MACKAY, IDAHO. T. A I M. E., vol 38, p. 293. 3 pages.
- Ore-Shoots at Butte, Montana. By R. H. Sales. Min. & Sci. Press, vol 97, p. 190. 3 columns.
- THE GENESIS OF THE COPPER DE-POSITS OF YERINGTON, NEVADA. By E. P Jennings J C. M. I., vol 10, p. 257. 3½ pages.
- Genesis of the Ore Deposits of the Fortuna Mine, Bingham, Utah. E & M. J., vol 86, p 1195. \(\frac{3}{2}\) column.
- ORIGIN OF THE MARBLE BAY COPPER DEPOSIT. J C. M I, vol 10, p. 248 ½ page.
- See also Occurrence of Copper and Copper Ores.
- THE ERUPTIVE DIAMOND-BEARING BRECCIAS OF THE BOSHOF DISTRICT, SOUTH AFRICA By J. P. Johnson. T. I. M. & M., vol. 17, p. 277. 8 pages.
- Genesis of the Arkansas Diamonds. E. & M. J., vol 87, p 154. ½ column.
- KIMBERLITE ROCK AND THE ORIGIN OF THE DIAMONDS. By F. W. Voit. E & M J, vol 87, p. 789. 6 columns.
- Origin of Diamonds in German South West Africa By R. G. Pearson. E. & M. J., vol. 89, p. 1282. 1 column.
- GENESIS OF AMATRICE: The New Gem Stone of Utah. E. & M. J., vol. 87, p. 1039 ‡ column.
- An Attempt to Grow a Diamond. P. C. M. & M. Soc. S. A., vol. 7, p. 123 Note.

- See also Occurrence of Diamonds. Genesis of the Goldfield Ores. M. & M., vol. 30, p. 511 4 columns. I.
- GOLDFIELD ORE DEPOSITS. By F. L. Ransome M & M, vol. 30, p. 396, 6 columns, I; p. 510, 6 columns, I.
- THE DEPOSITION OF GOLD OR Deposits. By J. C F Johnson T. Au. I M. E., vol 1, p. 142. 2 pages.
- CONCENTRATION OF SOLUBLE GOLD IN A DUMP By G B. Butterworth. Min Mag, London, vol. 2, p. 458. 2 columns.
- DEPTH TO WHICH SECONDARY EN-RICHMENT MAY EXTEND IN THE WESTERN AUSTRALIAN ORE DE-POSITS. T. Au. I. M. E, vol. 13, p 179. 3 pages.
- Broken Hill Vughs: Occurrence and Some Probable Causes By H. G. Baye T Au. I. M E., vol. 3, p. 192. 5½ pages.
- Indicators and Quartz Reefs in Victorian Mines By J T. Procter. T Au. I. M. E., vol 3, p. 198 4 pages I.
- THE "INDICATOR" FEATURE IN SOME GOLD OCCURRENCES, AUSTRALIA. By W. Bradford. T Au I M. E, vol. 3, p. 231 6 pages I.
- Origin of the Reefs in the Waihi Goldfield, New South Wales. T Au. I. M. E, vol 8, pt 2, p. 170. 2 pages. I.
- THE GENESIS OF BENDIGO AND CARRICK LODES, OTAGO, NEW ZEALAND By J. Park. Min & Sci Press, vol. 97, p. 121. 3½ columns I.
- THE ORIGIN OF THE GOLD IN THE RAND BANKET. By J. W. Gregory. T. I M. & M., vol. 17, p. 2. 83½ pages. I.
- THEORIES OF THE GENESIS OF THE RAND GOLD. T. I. M. & M., vol. 17, p. 3. 4 pages.
- ORIGIN OF THE GOLD OF THE RAND. By J. W. Gregory. Min. & Sci. Press, vol. 98, p. 662. 6½ columns.
- THE ORIGIN OF THE GOLD IN BANKET. By J. S. Curtis. P. C. M. & M.

- Soc. S. A., vol. 8, p 198, 9 columns; p. 242, ½ column; p 302, 4 columns; p 342, 1 column
- ORIGIN OF GOLD IN THE RANDSBURG QUADRANGLE, CALIFORNIA MIN. & Sci. Press, vol. 101, p. 536. 7 column
- ORIGIN OF GOLD "POCKETS" IN NORTHERN CALIFORNIA. By O H. Hershey. Min. & Sci. Press, vol. 101, p 741. 3\frac{1}{3} columns.
- THEORY OF THE EXPOSED TREASURE LODE DEPOSIT, MOJAVE, CALIFORNIA. By C De Kalb. T. A. I M. E., vol 38, p. 319. ½ page
- DERIVATION OF ORES OF THE GEORGE-TOWN DISTRICT, COLORADO. M. & M., vol. 30, p. 208. 2 columns.
- Ore Deposits of the Eastern Gold-Belt of North Carolina By W. O. Crosby. T A I. M. E, vol 38, p 849 9 pages.
- ORIGIN OF ORE IN THE COAHULA DISTRICT, MEXICO. E. & M. J, vol. 89, p. 1072 1½ columns.
- Mode of Ore Genesis: Gold and Silver in Nicaragua. E. & M. J., vol. 87, p. 1131. 1½ columns. I
- ORIGIN OF THE PLACER GOLD OF GUIANA. By L. Fraser. Min & Sci. Press, vol. 101, p. 703. 4 columns
- DEEP LEADS OF VICTORIA. Theory of Their Origin. T. I M. & M., vol. 17, p. 214. 10 pages. I.
- DEPOSITION OF ORE IN THE MANHAT-TAN DISTRICT, Nevada. E. & M. J., vol. 88, p. 83. 2 columns.
- THE TREADWELL ORE DEPOSITS,
 DOUGLAS ISLAND, ALASKA By A.
 C Spencer. U. S G. S., Bull. 259,
 p. 69. 19 pages. I.
- FLOOD-GOLD. E. & M. J., vol. 86, p. 558. \(\frac{2}{2}\) column.
- See also OCCURRENCE OF GOLD.
- ORIGIN OF CUBAN IRON ORES M & M, vol. 31, p. 246. ½ column.
- The Residual Brown Iron Ores of Cuba. By C. M. Weld T. A. I. M. E., vol. 40, p. 299. 13½ pages I.

- PYRITIC ORIGIN OF IRON ORE DE-POSITS. E. & M. J., vol. 86, p. 630. 3 columns.
- THE PYRITIC ORIGIN OF IRON ORE DEPOSITS. By H M Chance. E. & M. J. vol. 86, p. 408 8 columns.
- Genesis of Brown Hematite Ores and a New Source of Sulphur Supply. By H M. Chance. T A. I. M. E., vol 39, p. 522. 18 pages. I.
- A NEW THEORY OF THE GENESIS OF BROWN HEMATITE ORES AND A NEW SOURCE OF SULPHUR SUPPLY: Discussion of the paper of H. M. Chance, p. 522 T A. I. M. E., vol 39, p. 916. 41 pages.
- THE ORIGIN OF DEPOSITS OF PYRITES. By A. B. Willmott. J. C. M I., vol. 10, p. 118. 11 pages.
- GENESIS OF THE ONTARIO IRON ORES. J. C. M. I, vol 11, p 115. 1 page.
- ORIGIN OF PROTO-CARBONATE OF IRON IN COAL MEASURES Min. Mag., vol. 6, p. 201. 5 pages.
- Possible Origin of the Clinton Iron Ore of Alabama. T. A. I M. E, vol. 40, p. 119. 8 pages.
- THE ORIGIN OF THE CLINTON IRON ORE, HUNTINGDON COUNTY, PENN-SYLVANIA T. A. I. M. E., vol. 40, p. 147. 18½ pages I.
- Origin of the Clinton Oolitic Iron Ores of New York State T A. I. M. E, vol. 40, p. 176. 3 pages
- The Geological Relations of the Scandinavian Iron Ores. By H. Sjögren. T A I. M. E, vol. 38, p. 766. 69 pages. I
- See also Occurrence of Iron Ores.
- The Origin of Laterite. By J. M. Campbell T. I. M. & M., vol. 19, p. 432. 26 pages. I.
- THE GENESIS OF THE LEADVILLE ORE DEPOSITS. By M. Boehmer T. A. I. M. E., vol. 41, p. 162. 4½ pages. I.
- Genesis of the Ores of Leadville. By S. F. Emmons. Mm. & Sci. Press, vol. 95, p. 401. 9 columns.

- GENESIS OF THE LEADVILLE ORES. E & M J., vol. 89, p. 265. 2 columns. I.
- THEORY OF ORE DEPOSITION IN SOUTH-WESTERN MISSOURI. Min. & Sci. Press, vol 96, p 291, 7 columns; p. 325, 7² columns.
- A REPLACEMENT OF RHYOLITE POR-PHYRY BY STEPHANITE AND CHALCO-PYRITE AT LEADVILLE. By C. W. Fenner. Sch Mines Quart, vol. 31, p. 235. 6 pages. I.
- PRESENT VIEWS OF GENESIS OF LEAD-VILLE LIMESTONE ORES. By S. F. Emmons E & M. J, vol 85, p. 104. 5 columns
- OZARK LEAD AND ZINC-DEPOSITS:
 Their Genesis, Localization, and
 Migration. By C. R. Keyes. T. A.
 I M. E., vol 40, p. 184. 47½
 pages I.
- See also Occurrence of Lead.
- ORIGIN OF A MANGANESE DEPOSIT IN SOUTHERN INDIA. T I M & M, vol. 18, p. 140. 3 pages. I.
- See also OCCURRENCE OF MANGANESE.
 ORIGIN OF THE MONAZITE DEPOSITS OF
 THE CAROLINAS T. A. I. M. E,
 vol. 40. D. 125. 1 page.
- vol. 40, p. 125. 1 page. See also Occurrence of Monazite.
- Genesis of the Virginia Nickel. Ores. T. A. M. E, vol. 38, p. 697. ½ page.
- See also OCCURRENCE OF NICKEL
- Genesis of Petroleum. M & M, vol. 30, p. 222. 12 columns.
- RELATIONS BETWEEN LOCAL MAGNETIC DISTURBANCES AND THE GENESIS OF PETROLEUM. By G. F. Becker. U. S. G. S., Bull. 401. 24 pages 1909.
- THE CONDITIONS OF ACCUMULATION OF PETROLEUM IN THE EARTH. By D. T Day. T. A. I. M. E., vol. 41, p. 219. 5 pages.
- See also Occurrence of Petroleum.

 Origin of the Rock Phosphate of
 the Clarendon Deposit, New
 Zealand. T. Au. I M. E, vol. 11,
 p. 190. 6 pages. I.

- NATURE AND ORIGIN OF DEPOSITS OF PHOSPHATE OF LIME By R. A. F. Penrose, Jr. U. S G. S, Bull 46. 143 pages. I. 1888.
- See also Occurrence of Phosphates.
 Origin and Formation of Platinum
 Deposits in British Columbia.
 J. C. M. I, vol. 13, p. 317. 2½ pages.
- See also Occurrence of Platinum
- THEORY OF THE QUICKSILVER DE-POSITS OF MEXICO, DULCES NOM-BRES. E. & M. J., vol 88, p 685. 12 columns.
- See also Occurrence of Quicksilver.
 Origin of Cobalt-Silver Ores of Ontario. By O. E. Hore. Min. & Sci. Press, vol. 97, p 874. 5\frac{1}{3} columns. I.
- THE ORIGIN OF THE SILVER OF JAMES
 TOWNSHIP, MONTREAL RIVER MINING DISTRICT. By A. E. Barlow.
 J. C. M I., vol. 11, p. 256. 18
 pages. I.
- ORIGIN OF THE COBALT-SILVER ORES OF NORTHERN ONTARIO. By R E. Hore. J. C. M. I., vol. 11, p. 275. 12 pages.
- ORIGIN OF THE PEAKS SILVER FIELD ORES, NEW SOUTH WALES T AU. I. M. E., vol. 11, p 137. 12 pages. I
- GENESIS OF THE GUANAJUATO ORE DEPOSITS. E. & M. J., vol 87, p. 693. 1 column
- Origin of the Ores of the Nacozari District, Mexico. E. & M. J, vol. 86, p. 659. 1 column.
- THE ORE DEPOSITS OF MAGDALENA, NEW MEXICO. By P Argall E. & M. J., vol. 86, p 366. 15 columns. I.
- Genesis of the Lake Valley, New Mexico, Silver-Deposits. Discussion of Paper of C. R. Keyes, vol. 39, pp 139, 850. T A. I. M. E, vol. 40, p. 831. 4 pages.
- THE SILVER-LEAD ORE ZONES OF THE UMBERUMBERKA LODE. By N. Dudley. T. Au. I. M. E, vol. 1, p 135. 4½ pages.

- See also Occurrence of Silver.
- THEORY OF THE PROMONTORIO ORE DEPOSIT. T. A. I. M. E, vol. 38, p. 741. 5½ pages. I.
- Origin of the Tin Deposits in South Africa. E. & M. J., vol 89, p. 573. 5 columns. I.
- GEOLOGY AND MINING OF THE TIN DEPOSITS OF CAPE PRINCE OF WALES, ALASKA By A H Fay. T. A. I. M. E., vol 38, p 664 18 pages. I.
- ORIGIN OF TIN DEPOSITS OF CAPE COLONY. P. C. M. & M. Soc S A., vol. 8, p. 170. 2½ columns
- See also Occurrence of Tin.
- THEORY OF THE FORMATION OF THE JOPLIN REGION ORE DEPOSITS. T. A. I. M. E, vol. 38, p. 320. 23 pages.
- PROBABLE RELATION BETWEEN "THE ZINCIFEROUS SULPHIDE ORES AND THE OXIDIZED ORES OF THE BROKEN-HILL LODE" By C. W Marsh. T. Au I M E, vol. 1, p. 56. 9½ pages. I.
- THE ORE DEPOSITS OF MAGDALENA, NEW MEXICO. By P. Argall. E. & M. J., vol 86, p. 366 15 columns I.
- See also OCCURRENCE OF ZINC.
- Origin of Pegmatite By J. B. Hastings. T. A I. M. E., vol. 39, p. 104. 24½ pages.
- METALLIC SULPHIDES IN THE TUFFS OF SANTO DOMINGO. By F. L. Garrison. Min. & Sci. Press, vol. 95, p 305. 10½ columns. I.
- Lodes in the Tertiary Eruptives of Colorado. By T. A. Rickard. Min. & Sci. Press, vol. 95, p. 180. 4‡ columns. I.
- ORIGIN OF THE PEGMATITE DEPOSITS OF WESTERN MAINE. E. & M. J., vol. 87, p. 1127. $\frac{2}{3}$ column.
- See also Source and Supply of Water.

Occurrence of Alum and Nitrates

THE GILA RIVER ALUM DEPOSITS. By C. W. Hays. U. S. G. S., Bull. 315, p. 215. 10 pages. I. 1906.

- NITRATE DEPOSITS OF SOUTHERN CALI-FORNIA. By F W. Graeff. E. & M. J., vol. 90, p. 173. 2½ columns.
- NITRATE OF SODA INDUSTRY OF CHILE. By S. H. Loram. Mm. & Sci. Press, vol. 100, p. 125, 8 columns, I.; p. 180, 10 columns, I.
- THE NITTER INDUSTRY OF CHILE. E & M. J., vol. 90, p. 19. 14³/₄ columns. I.
- Notes on the Aluminum Industry in France. By T. Callot. E & M. J., vol. 89, p. 1229. 3 columns. I.
- Nitrate of Soda: Its Abundance in South Peru. Min. Mag., vol 3, p. 499. 7 pages.

Occurrence of Antimony

- THE WHEATON RIVER ANTIMONY DE-POSITS, YUKON TERRITORY. By D. D. Cairnes. J. C. M. I, vol 13, p. 297. 11½ pages. I.
- THE ARKANSAS ANTIMONY DEPOSITS. By F L. Hess. U. S G. S, Bull. 340, p. 241. 12 pages. I. 1907.
- THE AURIFEROUS ANTIMONY ORE OF WEST GORE, NOVA SCOTIA. By D. F. Haley. E. & M. J., vol. 88, p. 723. 5\frac{3}{2} columns.
- ANTIMONY IN SOUTHERN UTAH. By G. B. Richardson. U. S. G. S., Bull. 340, p. 253 4 pages. 1907.

Occurrence of Arsenic

- An Arsenic Mine in Putnam County, New York. By E. K. Judd. E & M. J., vol. 85, p. 306. 1 column.
- ARSENIC MANUFACTURE AT MIDVALE, UTAH. By L A. Palmer. M. & M., vol 30, p. 641. 7 columns. I.

Occurrence of Asbestos

- ASBESTOS: Occurrence and Uses By H. R. Edgecomb. M. & M., vol 31, p. 469. 6½ columns. I.
- Notes on the Recent Develor-MENTS IN ASBESTOS MINING IN

- QUEBEC. By W. J. Woolsey. J. C. M. I., vol. 13, p. 408. 6 pages. I.
- On the Distribution of Asbestos Deposits in the Eastern Townships of Quebec. By J. A. Dresser. J. C. M. I., vol. 13, p. 414 26 pages. I
- ASBESTOS IN QUEBEC. By F. Cirkel. E. & M. J, vol. 86, p. 461. 1 column.
- THE QUARRIES OF THE CANADIAN ASBESTOS DISTRICT By F. Cirkel. E. & M. J, vol 89, p. 918. 6½ columns. I.
- THE ASBESTOS INDUSTRY IN CENTRAL WYOMING. By F. H. Barrow. E. & M. J, vol. 90, p 559. 3 columns. I.
- Asbestos in Wyoming. By H. C. Beeler. E. & M. J., vol. 90, p. 955. 2½ columns. I.
- See also THEORY OF ORE DEPOSITS.

Occurrence of Asphalts

- BITUMEN AND OILS IN WEST AFRICA.
 By T H Boorman. E. & M. J,
 vol. 87, p 1037. 3 columns.
- THE TAR-SANDS OF THE ATHABASCA RIVER, CANADA By Robt. Bell T. A. I. M. E., vol. 38, p. 836. 12 pages. I.
- AN OCCURRENCE OF ASPHALTITE IN NORTHEASTERN NEVADA By R. Anderson. U S. G. S., Bull. 380, p. 283. 2½ pages. 1908.
- THE CARBONACEOUS AND BITUMINOUS MINERALS OF NEW BRUNSWICK. By R W Ells. J. C M I, vol. 11, p. 204 15 pages
- Grahamite Deposits of Southeastern Oklahoma. By J. A. Taff. U. S. G. S., Bull. 380, p 286. 12 pages I 1908.
- Ozokerite in Utah By H. W. Mac-Farren. Min. & Sci Press, vol. 99, p. 789 2½ columns. I.
- OZOKERITE DEPOSITS IN UTAH. By J. A. Taff and C. D Smith. U. S. G. S, Bull 285, p. 369. 4 pages. 1905.

MANJAK AS WORKED AT THE VISTA-BELLA MINE, TRINIDAD By J. C. T. Raspass. T. I M. E., vol. 36, p. 119. 5 pages.

Occurrence of Barite

- A COMMERCIAL OCCURRENCE OF BARITE NEAR CARTERSVILLE, GEORGIA. By C. W. Hayes and W. C. Phalen. U. S. G. S., Bull. 340, p. 458. 4½ pages. I. 1907.
- THE GEOLOGY, MINING, AND PREPARATION OF BARITE IN WASHINGTON COUNTY, MISSOURI. By A. A. Steel T. A. I. M. E., vol. 40, p. 711, 32½ pages. I.
- THE VIRGINIA BARITE DEPOSITS. By T. L. Watson. T. A. I. M E, vol. 38, p. 710. 24 pages I
- BARITE ASSOCIATED WITH IRON-ORE IN PINAR DEL RIO PROVINCE, CUBA. By C. Catlett. T. A. I. M. E., vol. 38, p. 358. 12 pages.
- See also Theory of Ore Deposits and Geology of Fuels and Ores

The Occurrence of Bismuth

BISMUTH: Its Occurrence and Use. By E. B. Wilson. M. & M., vol 30, p. 105. $5\frac{1}{3}$ columns

Occurrence of Borax

- AMERICAN BORAX DEPOSITS. By C. R. Keys. E. & M. J., vol. 88, p. 826. 5 columns. I
- See also United States
- Borax in California. Min. and Sei. Press, vol. 101, p. 400 11 columns.
- BORATE DEPOSITS OF CALIFORNIA. By A. B. Wainewright. T. I. M. E., vol 37, p 156 6 pages.

Distribution of Building Stone

GEOLOGY OF ROAD-BUILDING STONES OF MASSACHUSETTS, WITH SOME CONSIDERATION OF SIMILAR MA-TERIALS FROM OTHER PARTS OF THE UNITED STATES. By N S. Shaler.

- U. S G. S., 16th Ann Rept., pt. 2, pp. 277-341. 1894-95. I.
- THE BUILDING STONES AND MATERIALS OF SOUTHEASTERN ALASKA. By C. W Wright. U. S. G. S., Bull. 345, p. 116. 10 pages. 1907.
- STRUCTURAL MATERIALS AVAILABLE IN THE VICINITY OF MINNEAPOLIS, MINNESOTA. By E. F Burchard. U. S. G. S., Bull. 430, p. 280. 12 pages. 1909.
- STRUCTURAL MATERIALS IN PARTS OF OREGON AND WASHINGTON. By N. H. Darton. U. S. G. S., Bull. 387. 36 pages. I. 1909.
- STRUCTURAL MATERIALS AVAILABLE IN THE VICINITY OF AUSTIN, TEXAS. By E. F. Burchard. U. S. G. S., Bull. 430, p. 292. 24 pages. 1909.
- FIELD INVESTIGATIONS OF STRUCTURAL MATERIALS BY THE U. S. GEOLOGICAL SURVEY. By E. F Burchard. T. A. I. M. E., vol. 41, p. 490. 4½ pages
- Granites. By G. Surt Min. & Sci. Press, vol 99, p. 712. 5 columns. I.
- CHIEF COMMERCIAL GRANITES OF MASSACHUSETTS, NEW HAMPSHIRE AND RHODE ISLAND. By T. N. Dale. U. S. G. S., Bull. 354. 228 pages. I. 1908.
- Granites of the Southeastern Atlantic States. By T. L. Watson. U. S. G. S., Bull. 426. 282 pages. I.
- THE GRANITES OF VERMONT. By T. N. Dale U. S. G. S., Bull. 404. 138 pages. I. 1909.
- THE OOLITIC LIMESTONE INDUSTRY AT BEDFORD AND BLOOMINGTON, ILLI-NOIS. By J. A. Udden. U. S. G. S., Bull. 430, p. 335. 12 pages. 1909.
- OOLITIC LIMESTONE AT BOWLING GREEN AND OTHER PLACES IN KEN-TUCKY. By J. H. Gardner. U. S. G. S., Bull 430, p. 373. 7 pages. 1909.
- THE WHITE LIMESTONE AREA OF FRANKLIN, SUSSEX COUNTY, NEW JERSEY By J. E. Wolff and A. H.

- Brooks. U. S. G. S, 18th Ann. Rept., pt. 2, pp. 425-458 1896-97. I.
- LIMESTONES OF SOUTHWESTERN PENN-SYLVANIA By F. G. Clapp. U. S. G. S., Bull. 249. 52 pages. I. 1905.
- MARBLE PROSPECTS IN THE CHIRICA-HUA MOUNTAINS, ARIZONA. By S. Paige. U. S G. S, Bull. 380, p. 299. 13 pages. I. 1908.
- MARBLE OF WHITE PINE COUNTY, NEVADA, NEAR GANDY, UTAH. By N. H. Darton. U. S G S., Bull. 340, p. 377. 3 pages 907.
- THE SLATES OF ARKANSAS By A H. Purdue. U. S. G. S, Bull 430, p. 317. 18 pages. I 1909.
- SLATE MINING IN WALES AND CAUSE OF ITS DECLINE. E & M. J, vol. 85, p. 145. 7½ columns. I.
- Note on a Variety of Maine Slate. By T. N. Dale. U S. G. S, Bull. 285, p. 449. 12 pages. 1905.
- SUPPLEMENTARY NOTES ON THE GRAN-ITES OF NEW HAMPSHIRE. By T. N. Dale. U. S. G. S., Bull. 430, p. 346. 26 pages. 1909.
- THE SLATE BELT OF EASTERN NEW YORK AND WESTERN VERMONT. By T. N. Dale. U S. G. S., 19th Ann. Rept, pt. 3, pp. 153-307. 1897-98. I.
- The Production of Slate in the United States. Min. & Sci. Press, vol. 95, p. 467. ½ column.
- THE SLATE QUARRIES OF VERMONT By C. S. Richardson. Min Mag, vol. 2, p. 271 12 pages

Occurrence of Cement Rock

- PORTLAND CEMENT MATERIALS NEAR DUBUQUE, IOWA. By E F. Burchard. U.S. G. S., Bull. 315, p. 225. 7½ pages. 1906.
- PORTLAND CEMENT IN MICHIGAN. By L. L. Kimball. U. S. G. S., Mineral Resources, 1903.

- CEMENT MATERIAL NEAR HAVRE, MONTANA By L. J. Pepperberg. U. S G. S., Bull 380, p. 327. 10 pages. 1908.
- CEMENT MATERIALS IN REPUBLICAN VALLEY, NEBRASKA. By N. H. Darton. U. S. G. S., Bull. 430, p 381. 8 pages. I. 1909.
- CEMENT RESOURCES OF THE CUMBER-LAND GAP DISTRICT, TENNESSEE-VIRGINIA By E. C. Eckel. U. S. G. S., Bull. 285, p. 374. 2½ pages. 1905.
- PORTLAND CEMENT MATERIALS NEAR EL PASO, TEXAS. By G. B. Richardson. U. S. G. S., Bull. 340, p 411. 4 pages. 1907.
- CEMENT RESOURCES OF WASHINGTON. By H. Landes. U S. G S, Bull. 285, p. 377. 8 pages 1905.
- PORTLAND CEMENT MATERIALS IN EASTERN WYOMING. By S. H Ball. U. S. G. S., Bull. 315, p. 232. 12 pages. I 1906.

Occurrence of Workable Clays

- KAOLINS AND FIRE CLAYS OF EUROPE. By H. Ries. U. S G. S., 19th Ann. Rept., pt. 6. 91 pages. 1897-98.
- THE CLAYS AND OCHERS OF ALABAMA. By E. A Smith. E & M. J., vol. 85. p. 1088 4 column.
- See also Occurrence of Iron Ores.
- CLAYS OF THE BIRMINGHAM DISTRICT, ALABAMA. By C Butts. U. S. G. S., Bull. 315, p. 291. 4 pages. 1906.
- THE CLAYS OF ARKANSAS. By J. C. Branner. U. S G. S, Bull. 351. 247 pages. I. 1908.
- CLAYS OF GARLAND COUNTY, ARKAN-SAS. By E. C. Eckel. U. S. G. S., Bull. 285, p. 407. 3½ pages. 1905.
- CLAY DEPOSITS OF THE WESTERN PART OF THE DURANGO-GALLUP COAL FIELD OF COLORADO AND NEW MEXICO. By M. K. Shaler and J. H. Gardner. U. S. G. S., Bull. 315, p. 296. 6½ pages. 1906.

- CHINA-CLAY MINING IN CORNWALL. Min. Mag., vol. 4, p. 450. 3 columns. I.
- Notes on the Clays of Florida. By G. C. Watson U. S. G. S., Bull 380, p. 346. 10 pages. 1908.
- KAOLINS AND FIRE CLAYS OF CENTRAL GEORGIA. By O Veatch. U. S. G. S., Bull. 315, p 303. 12 pages I. 1906.
- CLAY RESOURCES OF NORTHEASTERN KENTUCKY. By W C. Phalen. U. S. G. S., Bull. 285, p. 411. 6 pages. 1905.
- CLAYS OF WESTERN KENTUCKY AND TENNESSEE. By A. F. Crider. U S. G. S., Bull. 285, p. 417. 11 pages. I. 1905.
- CLAYS OF THE PENOBSCOT BAY REGION, MAINE. By E. S. Bastin. U. S. G S, Bull. 285, p. 428. 4 pages 1905.
- CLAYS OF CAPE COD, MASSACHUSETTS. By M. L. Fuller U. S. G. S., Bull. 285, p. 432. 9½ pages. 1905.
- BRICK CLAYS NEAR CLINTON, MASSACHUSETTS. By W. C. Alden. U. S G. S, Bull. 430, p. 402. 3 pages 1909.
- CLAY RESOURCES OF THE ST LOUIS DISTRICT, MISSOURI. By N. M Fenneman. U. S. G. S, Bull. 315, p. 315. 6½ pages. I 1906.
- CLAYS IN THE KOOTINAI FORMATION NEAR BELT, MONTANA. By C. A. Fisher. U S. G. S., Bull. 340, p. 417. 7 pages. 1907.
- THE SHALE AND CLAY DEPOSITS OF NOVA SCOTIA AND PORTIONS OF NEW BRUNSWICK. By H. Ries J. C. M. I, vol 13, p. 336. 20½ pages. I.
- THE CLAY AND SHALE DEPOSITS OF NOVA SCOTIA. By H Ries. J. M. Soc. N. S, vol. 15, p. 9. 18½ pages.
- Notes on Clays and Shales in Central Pennsylvania. By G. H. Ashley. U S G. S., Bull. 285, p. 442. 2 pages 1905.

- WHITE CLAYS OF SOUTH MOUNTAIN, PENNSYLVANIA By G W. Stose U. S. G. S., Bull. 315, p. 322. 12½ pages. I. 1906.
- CLAYS AND SHALES OF SOUTHWESTERN CAMBRIA COUNTY, PENNSYLVANIA. By W C. Phalen and L. Martin. U. S. G. S., Bull. 315, p. 344. 10 pages 1906.
- CLAYS AND SHALES OF CLARION QUAD-RANGLE, CLARION COUNTY, PENIN-SYLVANIA. By E. F. Lines. U. S. G. S., Bull. 315, p. 335. 8 pages. 1906.
- CLAYS OF WESTERN KENTUCKY AND TENNESSEE. By A. F. Crider. U. S G S, Bull 285, p. 417 11 pages. I. 1905.
- BENTONITE OF THE LARAMIE BASIN, WYOMING. By C. E. Siebenthal. U S. G. S., Bull. 285, p. 445. 4 pages. 1905.
- THE CLAYS OF TENNESSEE. By G. H. Ashley. Min. & Sci. Press, vol. 101, p. 712. 1½ columns.
- See also THEORY OF ORE DEPOSITS.

Occurrence of Coal and Lignite

- OUR STEAM-COAL AND ITS USES. By L. Knowles. T. I M. E, vol 36, p. 273. 13 pages.
- CUMBERLAND COAL Min. Mag, vol. 1, p 35 9 pages.
- SEMI-BITUMINOUS COAL-FIELDS OF GREAT BRITAIN AND AMERICA COM-PARED. By Prof. Whitaker. Min. Mag., vol. 10, p. 189. 2 pages.
- AMERICAN VS. EUROPEAN COAL MINES. By H. M. Payne. M & M, vol. 31, p. 195. 23 columns.
- BRIEF NOTES ON EUROPEAN COAL MINES. By F. W Parsons. E. & M. J., vol. 88, p. 497, 7½ columns, I.; p. 589, 12 columns, I.; p. 809, 11 columns, I
- SOUTH AFRICAN COALS AND THEIR ECONOMICS. By A. J. Andrews. P. C. M. & M. Soc. S. A., vol. 9, p. 330, 9½ columns; p. 391, 6 columns, D.

- SOUTH AFRICAN COALS AND THEIR ECONOMICS. By A. J. Andrews. P. C. M. & M. Soc. S. A., vol. 10, p. 92. 5 columns.
- FUELS OF THE BIRMINGHAM DISTRICT,
 ALABAMA. By E. F. Burchard and
 C. Butts U. S. G S., Bull. 400.
 204 pages. I 1910
- THE WARRIOR COAL BASIN IN THE BIRMINGHAM QUADRANGLE, ALA-BAMA. By C. Butts. U. S G. S, Bull. 285, p. 211 12 pages. I. 1905.
- LAHAUSAGE MINE, ALABAMA By A. W. Evans. M. & M, vol 30, p. 77. 41 columns. I.
- THE COOSA COALFIELD OF ALABAMA. By W. F. Prouty. E. & M. J, vol. 88, p. 921. 4 columns. I. Sections and Maps.
- THE NORTHERN PART OF THE COHABA COAL FIELD, ALABAMA By C. Butts. U. S. G. S., Bull. 316, p. 76. 40 pages. I. 1906.
- THE ALASKA COAL FIELDS By G. C. Martin. U. S. G. S., Bull 314, p. 40. 7 pages. I. 1906.
- ALASKA COAL AND ITS UTILIZATION.

 By A. H. Brooks U. S. G. S,

 Bull. 442, p. 47. 54 pages. I.

 1909
- COAL RESOURCES OF SOUTHWESTERN ALASKA. By R. W. Stone. U. S. G. S., Bull. 259, p 151. 21 pages. I.
- BERING RIVER COAL FIELD. By G. C. Martin. U. S. G. S., Bull. 259, p. 140. 10½ pages. I.
- THE BERING RIVER COALFIELD OF ALASKA. By L W. Storm. E. & M. J., vol. 90, p. 272. 9½ columns. I.
- THE BERING RIVER COAL DEPOSITS, ALASKA. By G. C. Martin. U. S. G. S., Bull. 250. 64 pages. I. 1905.
- CONTROLLER BAY COAL FIELD, ALASKA. By G. W. Evans. M. & M., vol. 30, p. 449, 8 columns, I.; p. 552, 6²/₂ col umns, I.
- COAL FIELDS OF THE CAPE LISBURNE REGION, ALASKA. By A. J. Collier.

- U. S. G. S., Bull. 259, p. 172. 3½ pages.
- COAL RESOURCES OF THE CAPE LISBURNE REGION, ALASKA. By A. J. Collier U S G S, Bull. 278. 54 pages I. 1906
- Geology and Coal Resources of the Cape Lisburne Region, Alaska. By A J Collier. U. S G. S, Bull. 278. 54 pages. I. 1906.
- COAL DEPOSITS OF THE SKEENA RIVER. J. C. M. I, vol 10, p 223. 6 pages. Map.
- THE COAL FIELDS OF THE KACHEMAK BAY REGION By R W. Stone. U.S. G.S., Bull. 277 88 pages. I. 1906
- A RECONNAISSANCE OF THE MATANUSKA COAL FIELD, ALASKA, IN 1905. By G. C. Martin. U. S. G. S., Bull. 289. 36 pages. I. 1906.
- THE ARKANSAS COAL FIELD. By A. J. Collier. U S G. S, Bull 316, p. 137 25 pages I. 1906.
- THE ARKANSAS COAL FIELD. By A J. Collier. U S G S, Bull. 326. 158 pages. I. 1907.
- REMARKS ON THE BROWN COAL BEDS AND ASSOCIATED DEPOSITS OF THE WERRIBEE PLAINS, VICTORIA. By A. E. Kitson T. Au I. M. E., vol. 8, pt. 2, p. 255. 12 pages.
- Notes on Victorian Brown Coal. Beds. By J. Stirling T. Au. I. M. E, vol. 1, p. 35. 21½ pages I.
- New Coalfield in British Columbia. E. & M. J., vol 85, p. 544. \$\frac{1}{2}\$ column.
- THE HOSMER MINES, LIMITED, BRITISH
 COLUMBIA: Coal. By H. H. Yull.
 J. C. M. I., vol. 13, p. 230. 27
 pages I. Maps.
- THE NICOLA VALLEY COAL-FIELD, BRITISH COLUMBIA. By M. Roberts. T. A. I. M. E, vol. 40, p. 798. 6 pages. I.
- THE CLASSIFICATION OF NICOLA VAL-LEY COALS, BRITISH COLUMBIA. By

- S. J. Castleman J. C. M I., vol. 13, p. 600. 3 pages.
- COAL MINING IN CALIFORNIA. Min. & Sci. Press, vol. 95, p. 186. 7 column.
- COAL IN THE MOUNT DIABLO RANGE, MONTEREY COUNTY, CALIFORNIA. By R. Arnold. U. S. G. S, Bull. 285, p. 223. 2 pages. I. 1905.
- COAL OF STONE CANYON, MONTEREY COUNTY, CALIFORNIA. By M. R. Campbell. U. S. G. S., Bull. 316, p. 435. 4 pages. 1906
- THE COALFIELDS OF CANADA. By P. Thompson. E. & M. J, vol. 88, p. 1271. 2 columns.
- COAL AREAS IN THE CANADIAN NORTH-WEST E. & M. J, vol. 90, p. 548. 4 columns.
- MINING AT LITHBRIDGE, ALBERTA.
 By A. T. Shurick. M & M, vol 31,
 p. 635. 2 columns. I.
- THE COALFIELDS OF ALBERTA AND SASKATCHEWAN. By P. Thompson. E. & M J, vol. 88, p. 17. 3½ columns.
- THE COALS AND COAL FIELDS OF ALBERTA, SASKATCHEWAN AND MANITOBA By D. B Dowling. J. C. M I, vol 10, p 227. 13 pages. I. Map.
- THE GALT COAL FIELD, ALBERTA, CAN-ADA. By W. D. L. Hardie. J. C. M. I, vol. 13, p. 190. 5½ pages. D.
- The Dan River Coalfield in North Carolina. E. & M. J., vol. 89, p. 1239. 2 columns.
- THE COAL LANDS OF THE DEEP RIVER COMPANY IN NORTH CAROLINA. By W. R. Johnson. Min. Mag, vol. 1, p. 352. 13 pages.
- GEOLOGICAL FEATURES OF THE COAL FIELDS OF CHILE. T. I. M. E., vol. 38, p. 34. 4 pages.
- THE COAL FIELDS AND COLLERIES OF THE REPUBLIC OF CHILE. By A. Russell. T. I. M. E., vol. 38, p. 29. 54 pages. I.

- COAL IN CHINA. Min & Sci. Press, vol. 20, p. 42. ½ column.
- COAL MINING IN MANCHURIA. By T. T. Read. Min. Mag, London, vol. 1, p. 215. 8 columns. I.
- The Fushun Colliery, South Manchurla. By W A. Moller. T. A. I. M. E., vol. 41, p. 241. 4 pages.
- The Pinghsiang Colliery, China. By K. P. Swensen. Min & Sci. Press, vol 101, p. 564. 7 columns. I. Coal Mining in China. By T. T.
- COAL MINING IN CHINA. By T. T. Read. Min. & Sci. Press, vol. 98, p. 44. 5 columns. Map.
- MINING IN NORTHERN CHINA. By F L. Cole. Min. & Sci. Press, vol. 98, p. 584. 43 columns Map.
- THE COAL FIELDS BETWEEN SHAN HAI KUAN AND MUKDEN, NORTH CHINA. By W. A. Moller. T. I. M. E, vol. 38, p. 460. 15 pages. I.
- COAL MINING IN NORTH CHINA E. & M. J, vol 85, p. 366 2½ columns.
- COAL DEPOSITS IN COLOMBIA. Min. & Sci. Press, vol 98, p. 220 1½ columns. I.
- PICTOU COAL FIELD LORE. M. & M., vol. 31, p. 179. ½ column.
- THE YAMPA COAL FIELD, ROUTT COUNTY, COLORADO By N. M. Fenneman and H. S. Gale. U. S. G S., Bull. 285, p. 226 14 pages. I 1905.
- THE SOUTH PARK COAL FIELD, COLORADO. By C. W. Washburne. U. S G S., Bull. 381, p. 307. 10 pages. I 1908.
- THE GRAND MESA COAL FIELD, COLO-RADO. By W. T. Lee. U. S. G. S, Bull. 341, p. 316. 17 pages. I. 1907.
- COAL FIELDS OF THE DANFORTH HILLS AND GRANDHOGBACK IN NORTH-WESTERN COLORADO. By H. S. Gale. U S. G S, Bull. 316, p. 264. 40 pages. I. 1906.
- THE TRINIDAD COAL-FIELD, COLO-RADO. By G. B. Richardson. U. S. G. S., Bull. 381, p. 379. 68 pages. I. 1908.

- ROUTT COUNTY, COLORADO, COALS. By R. L. Herrick. M. & M., vol. 29, p. 230. 93 columns. I.
- THE CAÑON CITY COAL FIELD, COLO-RADO. By C. W. Washburne U. S. G. S., Bull 381, p. 341 38 pages. I. 1908.
- THE COLORADO SPRINGS COAL FIELD, COLORADO. By M. L. Goldman. U S. G. S, Bull 381, p. 317. 24 pages. I 1908
- COAL OF THE DENVER BASIN, COLO-RADO By G C. Martin. U. S. G. S., Bull. 381, p 297. 10 pages. 1908.
- THE COAL FIELD BETWEEN DURANGO, COLORADO, AND MONERO, NEW MEXICO. By J. H. Gardner. U. S. G. S., Bull 341, p. 352. 12 pages. I. 1907.
- THE DURANGO-GALLUP COAL FIELD OF COLORADO AND NEW MEXICO. By F. C Schrader. U S G. S., Bull. 285, p. 241. 19 pages. I 1905
- THE DURANGO COAL DISTRICT, COLORADO By J. A. Taff. U. S G. S., Bull. 316, p. 321. 18 pages. I. 1906.
- THE BOOK CLIFFS COAL FIELD, BETWEEN GRAND RIVER, COLORADO, AND SUNNYSIDE, UTAH. By G. B. Richardson. U. S. G. S., Bull. 316, p. 302. 18 pages I. 1906.
- RECONNAISSANCE OF THE BOOK CLIFFS COAL FIELD By G B. Richardson. U. S. G. S., Bull 371 54 pages. I. 1909.
- MINING COAL IN SOUTHERN COLO-RADO. By K S. Guiterman. E. & M. J., vol. 88, p. 1009. 20½ columns. I.
- COAL FIELDS OF SOUTHERN COLORADO. M. & M., vol 30, p. 588. 3½ columns. I.
- COAL MINING AT PRIMERO, COLORADO. By R. L. Herrick. M. & M., vol. 30, p. 598. 2½ columns. I.
- THE DELAGUA COAL MINES, COLO-RADO. By F. W. Whiteside. M. & M., vol. 29, p. 317. 4½ columns. I.

- THE NORTH-DAKOTA-MONTANA LIG-NITE AREA. By A. G. Leonard. U. S. G. S., Bull. 285, p. 316. 14 pages. 1905
- THE SENTINEL BUTTE LIGNITE FIELD, NORTH DAKOTA AND MONTANA. By A. G. Leonard and C. D. Smith. U. S. G. S., Bull. 341, p. 15. 21 pages I. 1907.
- THE WASHBURN LIGNITE FIELD, NORTH DAKOTA. By C. D Smith U S G S, Bull 381, p. 19 11 pages. I 1908
- THE FORT BERTHOLD INDIAN RESER-VATION LIGNITE FIELD, NORTH DAKOTA By C D Smith. U. S. G. S., Bull 381, p 30. 10 pages. I. 1908.
- THE KENT COALFIELD IN ENGLAND. E. & M. J, vol. 87, p. 910 1½ columns.
- THE WEMYSS COAL-FIELD, ENGLAND. By J Gemmell. T. I. M. E, vol 36, p. 555 20 pages
- Scottish "Ednie" Coal. By C T. Clough. T I. M. E., vol 37, p. 2. 10 pages I
- UPPER SILESIA COAL MINES. By F. Haas. M. & M., vol 30, p. 471. 5½ columns.
- BIBLIOGRAPHY OF ILLINOIS COAL AND ITS UTILIZATION J. W Soc. E., vol. 14, p 326 22 pages
- STUDIES OF ILLINOIS COALS By H. F. Bain T. A. I. M. E., vol. 40, p. 3. 72 pages. I.
- Illinois Coal Statistics. M. & M., vol. 31, p. 357. ½ column.
- THE COAL MINING INDUSTRY IN ILLINOIS DURING 1908. E. & M. J, vol. 88, p. 77. 4 columns.
- The Kingston Coal Mines, Peoria County, Illinois. By C S Richardson. Min. Mag., vol. 4, p 379, 7½ pages; vol. 5, p. 1, 24 pages.
- THE ILLINOIS COAL FIELD. By A. Bement. J. W. Soc. E., vol. 14, p. 305. 70 pages. I.

- THE COAL RESOURCES OF ILLINOIS. T. A. I. M. E, vol. 40, p 7. 10 pages. I
- THE ILLINOIS COAL FIELD By A. Bement M & M, vol. 30, p. 709. 7 columns I
- THE ILLINOIS COAL FIELD. By H. H. Stoek. M. & M, vol. 31, p. 54. 6 columns Map.
- COAL INVESTIGATION IN THE SALINE-GALLATIN FIELD, ILLINOIS, AND THE ADJOINING AREA. By F W. De Wolf U.S. G.S., Bull. 316, p. 116. 20 pages I. 1906.
- STRATIGRAPHY AND COAL BEDS OF THE INDIANA COAL FIELD By G. H Ashley. U. S G. S., Bull. 381, p. 9. 10 pages 1908.
- Mining Coal in Southern Indiana. By F W Parsons. E & M J, vol. 90, p 869. 11 columns. I
- COALFIELDS OF IOWA AND MISSOURI. By H. Hinds M & M, vol. 31, p. 80. 4½ columns. I. Map.
- Notes on the Takasima Coal Mines, Nagasaki, Japan. By E. W. Nardin T. Au I M E., vol. 8, pt. 1, p. 81 6 pages. I.
- SOUTHERN KANSAS COAL DISTRICT. By L. L. Wittich M & M, vol 31, p 668. 7½ columns. I.
- THE KANSAS STATE COAL MINE. By C. M Young E & M. J, vol. 89, p. 1159. 91 columns I.
- COAL RESOURCES OF THE KENOVA QUADRANGLE, KENTUCKY. By W. C. Phalen U. S. G. S., Bull. 285, p. 209. 10 pages. I. 1905.
- THE ELKHORN COAL FIELD, KENTUCKY.

 By R. W. Stone U. S. G. S., Bull.

 316, p. 42 15 pages. I. 1906.
- THE MIDDLESBORO COALFIELD IN KENTUCKY. By J. Howard. E. & M. J., vol. 88, p. 314. 8 columns. I.
- GEOLOGY AND MINERAL RESOURCES OF THE CUMBERLAND GAP COAL FIELD, KENTUCKY. By G. H. Ashley and L. C. Glenn. U. S. G. S, Professional Paper 49, 239 pages. I. 1906.

- COAL RESOURCES OF THE RUSSELL FORK BASIN (KENTUCKY-VIRGINIA). By R. W. Stone. U S G S, Bull. 348 127 pages. I 1908.
- THE MIDDLESBORO COAL FIELD, KENTUCKY. By J Howard. E. & M. J., vol. 85, p 166. 10 columns I.
- MINING COAL IN BIG STONE GAP FIELD, KENTUCKY. By J P. Shippen. E. & M. J., vol. 85, p. 1287. 11 columns. I.
- COAL MINES OF MEXICO. By M. Schwarz M. & M, vol 29, p. 33. 3 columns I.
- THE COAL INDUSTRY IN MEXICO. By E Ludlow. E. & M. J, vol. 88, p. 661. 10\frac{3}{2} columns. I.
- COAL IN COAHUILA, MEXICO By E. Ordoñez. Min & Sci Press, vol 96, p. 363 3½ columns. Map.
- THE CARBONIFEROUS DEPOSITS OF NORTHERN COARUILA. By J. G. Aguilera. E. & M. J., vol. 88, p 730. 9½ columns.
- COAL AND IRON EXPLORATIONS IN OAXACA, MEXICO. By J. L W. Birkinbine E & M J, vol 90, p. 668. 10½ columns. I.
- COALFIELDS OF IOWA AND MISSOURI. By H. Hinds. M & M, vol. 31, p. 80. 4½ columns. I. Map.
- THE COAL INDUSTRY OF MONTANA. By J. P Rowe. E & M. J, vol 85, p 1055. 12 columns. I.
- THE COAL MINING INDUSTRY OF MON-TANA. By J. P. Rowe E & M J, vol. 87, p 845. 16½ columns. I.
- THE GREAT FALLS COAL FIELD, MONTANA. By C. A. Fisher U. S. G. S., Bull. 316, p. 161 14 pages. I. 1906.
- THE GREAT FALLS COALFIELD IN MON-TANA. By A T Shurick. E. & M. J., vol. 87, p. 587. 10½ columns. I.
- THE GREAT FALLS COAL FIELD OF MONTANA By C. A. Fisher. U S. G. S., Bull 356 87 pages. I. 1909.

- DEVELOPMENT OF THE BEAR CREEK COAL FIELDS, MONTANA By C. A. Fisher U. S. G. S., Bull. 285, p. 269. 2 pages. 1905.
- COAL NEAR THE CRAZY MOUNTAINS, MONTANA. By R. W. Stone. U. S. G. S., Bull. 341, p 78. 14 pages. I. 1907.
- THE BULL MOUNTAIN COAL FIELD, MONTANA. By L. H Woolsey. U S G. S., Bull. 341, p. 62. 16 pages. I. 1907
- THE MILES CITY COAL FIELD, MONTANA. By A. J Colher and C D. Smith. U. S. G S, Bull. 341, p. 36. 26 pages. I. 1907.
- THE COAL FIELDS OF PART OF DAW-SON, ROSEBUD, AND CUSTER COUN-TIES, MONTANA By A. G. Leonard. U. S. G. S., Bull. 316, p 194. 18 pages. I. 1906.
- COALS OF CARBON COUNTY, MONTANA. By N. H. Darton. U. S. G. S., Bull. 316, p. 174. 20 pages. I. 1906.
- THE LEWISTON COAL FIELD, MONTANA By W. R. Calvert. U. S. G. S., Bull. 341, p. 108. 15 pages. I. 1907.
- The Lewiston Coal Field, Montana. By W. R. Calvert U. S. G. S, Bull. 390. 83 pages. I. 1909.
- THE MILK RIVER COAL FIELD, MONTANA. By L J. Pepperberg. U. S. G. S., Bull. 381, p. 82. 26 pages. I. 1908.
- THE CENTRAL PART OF THE BULL MOUNTAIN COAL FIELD, MONTANA. By R. W. Richardson. U. S. G. S., Bull. 381, p. 60. 22 pages. I. 1908.
- THE FORT PECK INDIAN RESERVATION LIGHTEE FIELD, MONTANA. By C. D. Smith. U. S. G. S., Bull. 381, p. 40. 20 pages. I. 1908.
- COAL FIELDS OF THE NORTHEAST SIDE OF THE BIGHORN BASIN, WYOMING, AND OF BRIDGER, MONTANA. By C. W. Washburne. U. S. G. S.,

- Bull. 341, p. 165 35 pages I. 1907.
- THE RED LODGE COAL FIELD, MONTANA. By E G. Woodruff. U. S. G S., Bull. 341, p 92. 16 pages. I. 1907
- Notes on the Coals of the Custer National Forest, Montana. By C. H Wegemann. U. S. G. S., Bull. 381, p. 108. 7 pages. I. 1908
- THE COAL MINES OF DAWSON, NEW MEXICO. By J. E Shendan. M. & M, vol. 31, p. 653. 9½ columns. I.
- THE ENGLE COAL FIELD, NEW MEXICO. By W. T Lee. U. S. G S, Bull. 285, p. 240 1 page 1905.
- THE DURANGO-GALLUP COAL FIELD OF COLORADO AND NEW MEXICO. By F C. Schrader. U. S. G S., Bull. 285, p. 241. 19 pages I. 1905.
- A RECONNAISSANCE SURVEY OF THE WESTERN PART OF THE DURANGO-GALLUP COAL FIELD OF COLORADO AND NEW MEXICO. By M. K. Shaler. U S. G. S., Bull. 316, p. 376. 50 dages. I. 1906.
- THE COAL-MINES AND PLANT OF THE STAG CAÑON FUEL CO, DAWSON, NEW MEXICO. By J. E. Sheridan. T. A. I M E., vol 40, p. 354. 24 pages I
- THE UNA DELL GATO COAL FIELD, SANDOVAL COUNTY, NEW MEXICO. By M. R. Campbell. U. S. G. S., Bull. 316, p. 427. 4 pages. I. 1906.
- COAL IN THE VICINITY OF FORT STAN-TON RESERVATION, LINCOLN COUNTY, NEW MEXICO By M. K Campbell. U. S. G. S., Bull 316, p 431. 4 pages I. 1906.
- THE COAL FIELD BETWEEN GALLINA AND RATON SPRINGS, NEW MEXICO, IN THE SAN JUAN COAL REGION. By J. H. Gardner. U S. G. S., Bull. 341, p. 335. 17 pages. I. 1907.
- THE COAL FIELD BETWEEN DURANGO, COLORADO, AND MONERO, NEW

- Mexico By J. H. Gardner. U S. G. S., Bull. 341, p. 352. 12 pages. I. 1907.
- THE COAL FIELD BETWEEN GALLUP AND SAN MATEO, NEW MEXICO. By J. H. Gardner U. S G S, Bull. 341, p. 364. 15 pages I 1907.
- ISOLATED COAL FIELD IN SANTA FE AND SAN MIGUEL COUNTIES, NEW MEXICO. By J. H. Gardner. U S. G. S., Bull 381, p. 447 5 pages. 1908.
- THE CARTHAGE COAL FIELD, NEW MEXICO. By J. H Gardner. U S. G. S, Bull. 381, p. 452. 9 pages. I 1908.
- THE COAL FIELD BETWEEN SAN MATEO AND CUBA, NEW MEXICO By J. H. Gardner. U. S. G. S, Bull. 381, p. 461. 13 pages. I 1908.
- Carbonaceous Coal in New Mexico By J. H. Gardner. M & M, vol. 30, p. 570. 2\frac{1}{3} columns. I
- THE RICH COALFIELDS IN NEW MEXIco. E. & M. J., vol 86, p. 1251 1½ columns.
- THE COAL MINES AND PLANT OF THE STAG CANON FUEL COMPANY, DAW-son, New Mexico By J. E. Sheridan. T. A. I. M. E., vol. 40, p. 354 24 pages. I.
- COAL MINING IN PICTOU COUNTY, NOVA SCOTIA. By H E Coll. E. & M. J., vol. 85, p 1101. 7 columns. I.
- Dominion No 2 Colliery of the Dominion Coal Company. By A. G. Haultain. J. C. M. I., vol 13, p. 641 14 pages. I.
- THE OKLAHOMA COAL FIELDS. By C. N. Gould. M & M., vol. 29, p. 275 2½ columns. I
- COAL MINING IN OKLAHOMA By W. P. Thomas M & M., vol. 31, p. 193. 5 columns. I. Map.
- GEOLOGY OF THE MCALESTER COAL FIELD, INDIAN TERRITORY. By J. A. Taff. U. S. G. S.. 19th Ann.

- Rept, pt. 3. pp. 423-600. 1897-98 I.
- GEOLOGY OF EASTERN CHOCTOU COAL FIELD, INDIAN TERRITORY By J. A. Taff and G I. Adams U. S G. S., 21st Ann Rept., pt 2, pp 257— 311. 1899—1900. I.
- A COAL PROSPECT ON WILLOW CREEK, MORROW COUNTY, OREGON By W. C Mendenhall U. S. G. S, Bull. 341, p 406 3 pages 1907.
- THE ROGUE RIVER VALLEY COAL FIELD, OREGON. By J. S. Diller. U S G S, Bull 341, p. 401 5 pages. I. 1907.
- A GENERAL VIEW OF THE ANTHRACITE COAL REGION OF PENNSYLVANIA By H. W Poole Min. Mag., vol 4p. 245 4 pages.
- THE LACKAWANNA COAL BASIN: Its Geology and Mining Resources around Scranton, Pennsylvania. By H D Rogers Min. Mag, vol 2, p. 388, 6 pages, p 475, 15 pages, I.; p. 609, 12 pages.
- PROPERTY OF THE SHORT MOUNTAIN COAL COMPANY, LYKENS VALLEY, PENNSYLVANIA. Min Mag, vol 1, p. 468 7½ pages
- THE SOUTHERN ANTHRACITE COAL-FIELD By J. H. Haerther. E & M J., vol. 85, p. 653. 9 columns I.
- Anthracite Coal Mining By H C. Chance. U S G. S, Mineral Resources, 1883 and 1884, vol. 14.
- COAL MINING IN SOUTHERN ANTHRA-CITE FIELD. By T F Downing. E. & M. J., vol. 86, p. 475. 10 columns. I.
- MOREA COLLIERY BASIN, NORTHEAST-ERN PENNSYLVANIA M. & M., vol 30, p 730 1½ columns. I
- THE TUNUNGWANT COAL FIELD OF MCKEAN COUNTY, PENNSYLVANIA. By D D Owen Min. Mag, vol 9, p. 244, 12 pages; p. 306, 10 pages.
- THE LYCOMING IRON AND COAL COM-PANY, PENNSYLVANIA Min. Mag., vol 1, p. 455. 13½ pages.

- The Coal Lands of the Clinton County Coal Company, Pennsylvania. Min. Mag, vol 3, p. 513. $5\frac{1}{2}$ pages
- SMITHING COAL OF PENNSYLVANIA 2d Geol. Rept. Pa., G, p 202. 10 pages
- THE SAGMORE BITUMINOUS COAL MINES, CLEARFIELD DISTRICT, PENNSYLVANIA. By E K. Judd. E. & M. J., vol. 85, p. 605 6 columns I.
- A TYPICAL RIVER MINE IN PENN-SYLVANIA. By F W. Parsons. E & M. J, vol. 89, p. 326. 18 columns I.
- DONOHOE COKE COMPANY, NEAR GREENSBURG, PENNSYLVANIA By C. R. King. M. & M, vol. 29, p. 445. 7²/₄ columns. I.
- BUFFALO-SUSQUEHANNA SAGAMORE
 MINE By R. D N Hall M & M.
 vol. 31, p. 645. 8½ columns. I.
- The Jenner Mine of the Somerset Coal Company, Pennsylvania By J. L. Wagner M & M., vol. 29, p. 323. 2½ columns. I.
- COAL RESOURCES OF JOHNSTOWN, PENNSYLVANIA AND VICINITY. By W. C. Phalen U. S. G. S., Bull. 316, p. 20. 22 pages I. 1906
- Coals of the Clarion Quadrangle, Clarion County, Pennsylvania By E. F. Lines. U. S G S., Bull 316, p. 13. 9 pages. I. 1906.
- THE PUNXSUTAWNEY AND GLEN CAMPBELL COAL FIELDS OF INDIANA AND JEFFERSON COUNTIES, PENNSYLVANIA. By F B. Peck and G H. Ashley. U. S G S., Bull. 285, p. 276. 4 pages. 1905.
- CLEARFIELD COAL FIELD, PENNSYL-VANIA. By G. H. Ashley. U. S. G. S., Bull. 285, p. 271. 5 pages. I. 1905.
- THE MARIANNA COAL MINES. By H. M Phelps M & M, vol. 31, p. 523. 7½ columns. I.

- THE COAL DEPOSITS OF PERU By Z C. B Borlkjof. E & M. J, vol. 88, p 983 1½ columns.
- Philippine Coal Mines Min. & Sci. Press, vol. 100, p. 323. 2 columns.
- MINING COAL IN THE PHILIPPINE ISLANDS By R. Hawxhurst E. & M. J., vol. 88, p. 879. 4 columns.
- PHILIPPINE COAL FIELDS. By J. B. Dilworth. T A I. M. E, vol 39, p 653. 11 pages. I.
- PHILIPPINE COALS. By A. J Cox. E. & M J, vol. 86, p. 1058 4 columns.
- THE COAL FIELDS OF BRISTOL COUNTY
 AND OF RHODE ISLAND By E.
 Hitchcock Min. & Mag, vol 1,
 p. 582. 10 pages.
- COAL MINING ON THE KIRCHESE STEPPE IN THE ARMOKINSK DISTRICT OF SOUTH-WESTERN SIBERIA By E. Watson. T I. M E., vol 37, p 124. 10 pages. I.
- MINING COAL IN SPITZBERGEN, NOR-WAY. By T. Collot E & M. J., vol. 88, p 1274. 2 columns. I.
- THE WIND ROCK COAL MINE, TEN-NESSEE. By W. S. Hutchinson. M. & M, vol. 31, p. 1. 6 columns. I.
- COAL IN TENNESSEE. Min Mag, vol. 8, p 450. 10 pages
- THE CUMBERLAND COAL FIELDS, TENNESSEE By J. P Lestey Min. Mag., vol 5, p. 45 13 pages I.
- COAL IN TURKEY. Min & Sci Press, vol. 98, p. 821. 3 columns.
- THE COAL FIELDS OF THE UNITED STATES. By M R. Campbell and E. W. Parker. T. A. I. M E, vol. 40, p. 253. 8 pages.
- THE COALFIELDS OF THE UNITED STATES. E. & M J., vol. 87, p. 160. 8 columns. I
- PACIFIC COAST COALS. Min. & Sci. Press, vol. 22, p 216. ½ column.
- ANTHRACITE COAL ON THE PACIFIC COAST E & M. J., vol. 90, p. 920. 1 column. I.

- COAL MINING IN THE MIDDLE WEST By G H Cushing Min & Sci. Press, vol. 100, p. 130. 3½ columns
- FUEL IN THE INTERMOUNTAIN REGION. By D Harrington M & M., vol. 29, p 493. 4½ columns
- THE BARREN ZONE OF THE NORTHERN APPALACHIAN COALFIELD. By I C. White. E. & M J, vol 87, p 509. 13 columns
- THE NORTHERN APPALACHIAN COAL-FIELD By R N Hosler E & M. J, vol. 89, p 1122. 83 columns.
- THE COAL FIELDS OF THE UNITED STATES. By M R Campbell and E. W Parker. T A. I M. E, vol 40, p. 253 8 pages
- COAL BEDS OF PLEASANT VALLEY, UTAH E. & M J, vol 85, p 964. † column
- THE PLEASANT VALLEY COAL DISTRICT, CARBON AND EMERY COUNTIES, UTAH By J A Taff. U S G S, Bull 316, p. 338 21 pages D 1906
- COAL FIELDS OF NORTHWESTERN COLO-RADO AND NORTHEASTERN UTAH. By H S. Gale U S G S, Bull 341, p 283. 35 pages. I 1907.
- COAL FIELDS OF NORTHEASTERN COLO-RADO AND NORTHWESTERN UTAH By H. S Gale. U S G S, Bull. 415 265 pages. I. 1910
- NOTES ON THE WEBER RIVER COAL FIELD, UTAH. By J A Taff. U S. G. S., Bull 285, p. 285. 4 pages. 1905.
- COAL IN SANPETE COUNTY, UTAH BY G. B Richardson. U. S G. S, Bull. 285, p. 280. 7 pages. I. 1905.
- THE IRON COUNTY COAL FIELD, UTAH.

 By W. T. Lee U S. G. S, Bull.

 316, p 359. 20 pages. I 1906.
- THE HARMONY, CLOB, AND KANAB COAL FIELDS, SOUTHERN UTAH. By G. B. Richardson. U. S. G. S., Bull. 341, p. 379. 22 pages. I. 1907.

- BOOK CLIFFS COAL FIELD, UTAH, WEST OF GREEN RIVER By J A. Taff U S G S, Bull 285, p. 289. 14 pages I 1905
- CONSOLIDATED FUEL COMPANY, UTAH. By R J. Turner M & M, vol 31, p 385. 4 columns I.
- THE POCKET COAL DISTRICT, VIRGINIA, IN THE LITTLE BLACK MOUNTAIN COAL FIELD. By C A. Fisher. U S G. S, Bull. 341, p. 409. 10 pages I 1907.
- THE RUSSELL FORK COAL FIELD, VIRGINIA. By R. W Stone U S. G S, Bull 316, p 55 14 pages I. 1906
- THE COAL RESOURCES OF WASHINGTON.

 By R P. Tarr M & M, vol 30,
 p 17, 6 columns, I; p 108, 6 columns, I; p. 135, 7 columns, I; p. 311.
 8 columns, I
- Notes on the Coal Industry in West Virginia. By R. B Brinsmade. E & M J., vol 90, p. 775. 4½ columns
- UPPER POTOMAC COAL FIELDS, WEST VIRGINIA. By H. H Stoek M & M, vol 30, p. 201. 8 columns. I
- COAL MINING IN CENTRAL WEST VIRGINIA. By F. W Parsons. E & M J., vol. 87, p 1284. 16 columns. I.
- COAL FIELDS OF CENTRAL WEST VIR-GINIA. By H H. Stoek. M & M, vol 30, p. 188. 10 columns. I.
- COAL FIELDS OF WEST VIRGINIA BY H. H. Stoek. M. & M, vol. 29, p. 219, 6½ columns, I, p. 283, 7½ columns, I. Map; p. 303, 8½ columns, I.; p. 509, 11½ columns, I
- THE KANAWHA REGION, WEST VIRGINIA By H H Stock. M & M, vol 30, p. 36, 9 columns, I; p. 70, 8½ columns, I.
- COAL MINING IN KANAWHA VALLEY, WEST VIRGINIA. By S. M. Buck. U S. G S., Mineral Resources, 1883 and 1884.

- NEW RIVER COALFIELD, WEST VIR-GINIA. By H. H. Stoek. M. & M., vol. 29, p. 509. 11½ columns. I.
- CORRELATION THACKER FIELD, WEST VIRGINIA. By A. H. Stow. M. & M, vol. 31, p. 83. 4½ columns. I.
- THE THICKEST COAL SEAM: Wyoming. E. & M. J., vol 86, p. 1169 ½ column.
- A MODEL COAL MINING PLANT IN WYOMING. By H M Payne E. & M. J, vol. 90, p 224. 8½ columns I.
- COAL AND OIL IN SOUTHERN UINTA COUNTY, WYOMING By A. C. Veatch. U. S G S., Bull. 285, p. 331. 23 pages. I. 1905.
- THE WESTERN PART OF THE LITTLE SNAKE RIVER COAL FIELD, WYOMING. By M. W. Ball. U. S G S., Bull. 341, p. 243. 12½ pages. I 1907.
- THE EASTERN PART OF THE LITTLE SNAKE RIVER COAL FIELD, WYOMING. By M. W. Ball and E. Stebinger U. S. G. S., Bull. 381, p. 186. 28 pages I. 1908.
- THE NORTHERN PART OF THE ROCK SPRINGS COAL FIELD, SWEETWATER COUNTY, WYOMING. By A. R. Schultz. U. S. G. S., Bull. 341, p. 256. 27 pages. I. 1907.
- The Southern Part of the Rock Springs Coal Field, Sweetwater County, Wyoming. By A. R. Schultz. U. S. G. S., Bull. 381, p. 214. 68 pages. I. 1908.
- COAL FIELDS OF THE NORTHEAST SIDE OF THE BIGHORN BASIN, WYOMING, AND OF BRIDGER, MONTANA. By C. W Washburne U. S. G. S., Bull. 341, p. 165 35 pages. I. 1907.
- COAL FIELDS OF THE SOUTHWEST SIDE OF THE BIGHORN BASIN, WYOMING. By E. G. Woodruff. U. S. G. S., Bull. 341, p. 200. 18 pages. I. 1907.
- THE COAL FIELD IN THE SOUTHEAST-ERN PART OF THE BIGHORN BASIN,

- WYOMING. By E. G. Woodruff. U S. G. S, Bull. 381, p. 170 16 pages. I 1908.
- COAL FIELDS OF EAST-CENTRAL CARBON COUNTY, WYOMING. By A. C. Veatch U S G S, Bull. 316, p 244. 16 pages. I. 1906
- COAL FIELDS IN A PORTION OF CENTRAL UINTA COUNTY, WYOMING By A. R. Schultz. U S G. S., Bull. 316, p. 212. 30 pages. I 1906.
- THE BUFFALO COAL FIELD, WYOMING. By H. S Gale and C H. Wegeman. U S G S, Bull. 381, p. 137. 32 pages I 1908
- THE EASTERN PART OF THE GREAT DIVIDE BASIN COAL FIELD, WYOMING By E. E. Smith. U. S. G. S., Bull. 341, p 220. 23 pages. I. 1907.
- THE POWDER RIVER COAL FIELD, WYOMING, ADJACENT TO THE BURLINGTON RAILROAD. By R. W. Stone and C T Lupton U. S G. S., Bull 381, p 115 22 pages. I. 1908.
- COAL OF LARAMIE BASIN, WYOMING. By C E. Siebenthal. U. S G S, Bull. 316, p. 261, 3 pages. 1906.
- COAL AND OIL IN SOUTHERN UINTA COUNTY, WYOMING. By A C. Veatch. U. S. G. S., Bull. 285, p. 331. 23 pages. I 1905.
- THE SHERIDAN COAL FIELD, WYO-MING. By J A Taff. U S G S, Bull 341, p 123 14 pages. 1907.
- GEOGRAPHY AND GEOLOGY OF A PORTION OF SOUTHWESTERN WYOMING, WITH SPECIAL REFERENCE TO COAL AND OIL. By A. C Veatch. U. S. G. S., Professional Paper 56, 178 pages I 1907.
- THE COAL MINES OF SOUTHERN WYO-MING. By F. W. Parsons. E. & M. J., vol. 85, p. 118. 6½ columns. I.
- THE DIAMONDVILLE COALFIELD, WY-OMING. By A. T. Shurick E & M. J., vol. 85, p. 116. 6 columns. I.

- THE GLENROCK COAL FIELD, WYO-MING. By E. W Shaw. U S. G S., Bull. 341, p 151 14 pages I. 1907.
- THE LANDER COAL FIELD, WYOMING. By E. G Woodruff U. S. G S, Bull 316, p 242 2 pages 1906
- See also Maps of Countries and Districts.
- See also Theory of Ore Deposits and Geology of Fuels and Ores
- See also THE COAL TRADE

Occurrence of Copper and Copper Ores

- COPPER PROSPECTS. By T L Carter. P. C. M & M Soc. S A, vol. 5, p 305, 9 columns, I.; vol. 6, p. 80, † column, p 111, 1† columns.
- KATANGA COPPER BELT, BELGIAN
 CONGO By F. E. Studt. Min. &
 Sci. Press, vol 99, p. 857 1½ columns.
- THE COPPER DEPOSITS OF KATANGA, CONGO. E. & M J, vol. 86, p. 1049 2 columns
- THE COPPER MINES OF KATANGA, CONGO FREE STATE E & M. J., vol. 85, p. 202 32 columns.
- COPPER IN THE BELGIAN CONGO. T A I M E, vol 41, p 196. 8 pages. I.
- COPPER DEPOSITS OF PRINCE WILLIAM SOUND, ALASKA. By U. S. Grant Min & Sci. Press, vol. 100, p. 63 4 columns. I.
- COPPER MINING AND PROSPECTING OF PRINCE WILLIAM SOUND. By G. G. Grant and D. F. Higgins, Jr. U. S. G. S., Bull. 379, p. 87. 10 pages. I. 1908.
- Notes on Copper Prospects of Prince William Sound. By F. H. Moffit. U.S. G. S., Bull. 345, p. 176. 3 pages. I. 1907.
- OPENING OF THE CHITINA COPPER BELT IN ALASKA. By D. Donohoe. E. & M. J., vol. 90, p. 1306. 6 columns. I.

- CHITINA COPPER REGION IN SOUTHERN ALASKA By L W. Storm. E. & M J., vol 90, p. 1011 7½ columns. Map.
- CHITINA VALLEY COPPER DEPOSITS, ALASKA By E. Jacobs M. & M, vol. 31, p. 315. 61 columns. I.
- OCCURRENCE OF COPPER IN CHITINA VALLEY, ALASKA M & M, vol 31, p. 315. 6½ columns. I
- BONANZA COPPER MINE, ALASKA. By V. H. Wilhelm. Min. & Sci. Press, vol. 101, p. 569 2½ columns I
- BONANZA COPPER MINE ALASKA By V H Wilhelm. M & M, vol 31, p. 441. 1³/₄ columns. Map
- COPPER DEPOSITS OF WHITE HORSE By T A Rickard Min. & Sci. Press, vol. 97, p 778 3½ columns I.
- THE WHITE HORSE COPPER BELT, YUKON TERRITORY E & M. J., vol 89, p 963 2½ columns.
- WHITE RIVER COPPER PROPERTIES.

 By G A. R. Lewington. Min. &
 Sci. Press, vol. 99, p. 755. 2½ columns. I.
- THE KENNICOTT BONANZA COPPER MINE, ALASKA. By L W Storm. E. & M J, vol 89, p 1224 9½ columns I.
- COPPER DEPOSITS ON KASAAN PENIN-SULA, PRINCE OF WALES ISLAND By C. W Wright and S. Paige U. S. G. S., Bull. 345, p 98. 18 pages. I. 1907.
- RECENT DEVELOPMENTS IN CLIFTON-MORENCI DISTRICT, ARIZONA. By A. W. Hixson. E. & M. J., vol. 85, p. 251. 13 columns.
- ORE DEPOSITS OF THE CLIFTON-MORENCI DISTRICT OF ARIZONA. Min. & Sci. Press, vol. 101, p. 770. 6½ columns. Map.
- COPPER DEPOSITS OF SILVERBELL, ARIZONA. By C. F. Tolman Min. & Sci Press, vol. 99, p. 710. 5 columns. I
- THE MIAMI COPPER MINE, ARIZONA. By R. L. Herrick M. & M., vol. 30, p. 80 9½ columns. I.

- MINING AT MIAMI, ARIZONA. By R. L. Herrick M & M., vol 30, p 751. 12 columns I
- COPPER MINING IN METCALF DISTRICT, ARIZONA. By P B. Scotland E. & M. J., vol. 90, p. 118. 16 columns. I.
- DISSEMINATED CHALCOCITE DEPOSITS AT RAY, ARIZONA By C. F. Tolman, Jr. Mm & Sci. Press, vol. 99, p 622 5½ columns. I
- RAY COPPER DISTRICT, ARIZONA By W. H. Truesdale. Min & Sci. Press, vol. 98, p. 794 7³/₄ columns. I.
- Untred Verde Mine, Arizona. By L. C. Craton. Min & Sci. Press, vol. 96, p. 171. 1½ columns. Map.
- ORE DEPOSITS IN THE VICINITY OF PARKER, ARIZONA E. & M. J, vol. 88, p 1171. 2 columns.
- THE SUPERIOR AND BOSTON MINE, ARIZONA. By R. L. Herrick M & M., vol. 31, p. 112 8½ columns. I.
- COPPER DEPOSITS OF THE GLOBE-KELVIN DISTRICTS, ARIZONA. By E. Higgins. E. & M. J, vol 89, p. 769, 11 columns, I.; p. 813, 92 columns, I.; p. 870, 132 columns, I
- THE BISERE COPPER FIELD. Min. & Sci. Press, vol. 99, p. 358. 3 columns. I.
- STANLEY BUTTE DISTRICT, ARIZONA. By F. Wolf, Jr. Min. & Sci. Press, vol. 101, p 13. 1\frac{1}{3} columns. Map.
- COURTLAND, ARIZONA, A NEW CAMP. By H. W. Chittenden. E. & M J., vol. 87, p. 312 12 columns.
- THE SOUTHERN ARIZONA COPPER FIELDS. By C. F. Tolman, Jr. Min. & Sci. Press, vol. 99, p 356, 10 columns, I.; p. 390, 7½ columns, I
- THE MOUNT LYELL MINING FIELD. By J. W Gregory. T. Au. I. M. E., vol. 10, p 29. 169 pages
- THE ORE DEPOSITS OF MOUNT LYELL: Copper Deposits. By J. W. Gregory. T. Au. I. M. E., vol. 10, p. 113. 34 pages. I.
- Notes on Mount Read and Its Surphide Ore Bodies. By L. Williams.

- T. Au I. M E., vol 8, pt. 1, p. 74. 6 pages.
- COPPER MINES IN CHILLAGOE DISTRICT, QUEENSLAND By G W. Williams. E. & M. J, vol 87, p. 1125. 6 columns. I.
- THE MANY PEAKS COPPER MINE, QUEENSLAND, AUSTRALIA. By J. B. Wilson. E. & M. J., vol 88, p 872. 7% columns. I
- THE CLONGURRY COPPER DISTRICT,
 QUEENSLAND. By G. W. Williams.
 E. & M. J, vol 88, p. 155 13\frac{1}{2}
 columns. I
- COBAR GOLD AND COPPER FIELD, NEW SOUTH WALES. By G. W. Williams. E. & M J, vol. 86, p. 957. 4 columns. I.
- BEDDED COPPER DEPOSITS OF CARAN-GAS, BOLIVIA By R Hawxhurst, Jr E & M. J., vol. 90, p. 909. 12½ columns. I
- Notes on the Type Copper Mine. By W. H. Weed E & M. J., vol. 85, p. 199. 6½ columns. I.
- FURTHER OBSERVATIONS RELATIVE TO THE OCCURRENCE OF DEPOSITS OF COPPER ORE ON THE NORTH PACIFIC COAST AND ADJACENT ISLANDS, FROM THE SOUTHERN BOUNDARY OF BRITA-ISH COLUMBIA TO THE ALASKAN PENINSULA. By W. M. Brewer. J. C. M. I., vol 10, p. 195. 14 pages.
- MINES OF THE GRANBY CONSOLIDATED, PHOENIX, BRITISH COLUMBIA BY R H Allen. E & M. J, vol 88, p. 1260 7 columns. I.
- THE OCCURRENCE OF COPPER IN SHASTA COUNTY, CALIFORNIA By L. C. Graton. U. S. G. S., Bull. 430, p. 71 40½ pages. I. 1909.
- THE BALAKLALA CONSOLIDATED COPPER COMPANY, CALIFORNIA. E. & M. J., vol. 87, p. 501 9 columns. I.
- PRIMARY CHALCOCITE IN CALIFORNIA. By O. H. Hershey. Min. & Sci. Press, vol. 96, p. 429. 3 columns.
- THE GENESIS OF THE COPPER ORES IN SHASTA COUNTY, WEST OF THE SACRAMENTO RIVER. By W. For-

- estner. Mm. & Sci Press, vol. 97, p. 261 3 columns
- COPPER MINES AND SMELTERIES OF SHASTA COUNTY, CALIFORNIA By G. A. Packard. E & M J, vol 88, p. 393. 201 columns. I.
- THE CALAMA COPPER DISTRICT, CHILE. By F. A. Smith. M & M, vol. 31, p 473. 4 columns. I
- THE BRADEN COPPER MINES, CHILE. By W. Braden. M. & M, vol. 30, p. 506. 12 columns.
- THE COLLAHUASI COPPER DISTRICT, CHILE. By R. Hawxhurst. Min. Mag, London, vol. 3, p 271 14 columns. I.
- THE PODEROSA COPPER MINE, COLLA-HUASI, CHILE. By Robt Hawxhurst, Jr. E. & M J, vol. 85, p. 490 4 columns
- THE EVERGREEN COPPER-DEPOSIT, COLORADO. By E A. Ritter. T A. I. M. E, vol. 38, p. 751. 15 pages. I.
- Notes on Copper Deposits in Charfee, Fremont, and Jefferson Counties, Colorado By W. Lindgren U S G S, Bull 340, p. 157. 18 pages. I. 1907
- THE OLD BRISTOL COPPER MINE, CONNECTIOUT. By C. S Richardson Min. Mag, vol 3, p. 251 5 pages.
- CANTON COPPER MINE, CHEROKEE COUNTY, GEORGIA. By J. Derby. Min. Mag, vol. 5, p. 395 2½ pages.
- THE WHITE KNOB COPPER DEPOSITS, MACKAY, IDAHO. By J. F Kemp and C. G. Gunther. T. A. I M. E., vol. 38, p. 269. 29 pages I.
- SNOWSTORM COPPER DEPOSIT, IDAHO.
 Min & Sci Press, vol. 97, p 701.
 2\frac{2}{3} columns. I.
- Notes on the Fort Hall Mining District, Idaho. By F B Weeks and V. C Heikes U. S. G. S, Bull. 340, p. 175. 10 pages. I. 1907.
- COPPER IN JAMAICA. Min. & Sci. Press, vol. 99, p. 299. ½ column.

- THE KAPSAM MINES, KOREA Min. & Sci Press, vol 99, p 666 2½ columns.
- THE KOSAN MINE, KOREA By A. D. Weigall Min. & Sci Press, vol. 97, p. 878 2½ columns.
- THE KOSAKA COPPER MINE OF JAPAN. Min & Sci. Press, vol 101, p 503. 1 column.
- THE CANANEA CONSOLIDATED COPPER COMPANY IN 1908 By L D Ricketts. E. & M. J, vol. 87, p. 701. 13 columns
- REVIVAL IN URES, HERMOSILLO AND SAHUARIPA DISTRICTS, SONORA By W L Wilson. E & M J, vol. 90, p. 661. 3 columns
- SAN ANTONIO COPPER DISTRICT, SONO-RA, MEXICO. E & M J, vol. 90, p. 1301. 3½ columns D.
- ORE DEFOSITS OF CANANEA MINING DISTRICT, MEXICO. By S. F. Emmons E. & M J., vol. 90, p. 402. 5 columns. Map.
- Los Pilares Mine, Nacozari, Mexico. By C. De Kalb. Min & Sci. Press, vol. 100, p 887. 6½ columns. I
- ORE DEPOSITS OF THE NACOZARI DISTRICT, MEXICO E. & M. J, vol. 86, p 658. 1½ columns
- NACOZARI MINING DISTRICT, SONORA, MEXICO. By B. E Russell · E & M. J, vol. 86, p 657. 16 columns. I.
- THE MAGISTRAL COPPER DISTRICT, MEXICO. By P. A. Babb. E & M. J, vol. 88, p. 1215. 4½ columns I.
- COPPER-BEARING ROCKS OF LAKE SUPERIOR By R. D. Irving U S. G. S, 3d Ann. Rept, pp. 89-188. 1881-82 I.
- THE COPPER-BEARING ROCKS OF LAKE SUPERIOR. By R. D. Irving. U. S. G. S., Monograph V. 464 pages. I. 1883.
- THE LAKE SUPERIOR COPPER MINES. By J. A. Callender. Min Mag., vol. 2, p. 249. 3 pages.

- FOOTHILL COPPER BELT OF THE SIERRA NEVADA. By J. A. Reid. Min. & Sci. Press, vol. 96, p. 388. 9½ columns I.
- THE YERINGTON DISTRICT, NEVADA. By C. S. Durand. M. & M., vol 31, p. 24. 2½ columns. I.
- THE YERINGTON COPPER DISTRICT, NEVADA. By J. A. Carpenter. Min. & Sci. Press, vol. 101, p. 4. 101 columns. I.
- YERRINGTON COPPER DISTRICT. By F L Ransome Min. & Sci. Press, vol. 100, p. 354 4² columns. Map.
- Conditions in the Yerington Copper. District, Nevada. By J. Tyssowski. E. & M. J., vol. 89, p. 764. 61 columns. I.
- THE YERINGTON COPPER DISTRICT, NEVADA. By F. L. Ransome. U. S. G. S., Bull. 380, p. 99 21 pages. I 1908.
- THE YERINGTON COPPER DEPOSITS By F. L. Ransome M. & M, vol. 30, p 88. 6 columns I.
- SECONDARY COPPER ORES OF THE LUDWIG MINE, YERINGTON, NEVADA. By J. P. Jennings. J. C. M. I., vol. 11, p. 463. 3½ pages.
- RAY CONSOLIDATED MINES, NEVADA. By R. L. Herrick. M. & M., vol. 29, p. 544. 6½ columns. I.
- COPPER MINING AT ELY, NEVADA. By C. De Kalb. Min. & Sci. Press, vol. 98, p. 58. 6 columns. I.
- PRESENT CONDITIONS OF ELY. Min. & Sci. Press, vol. 100, p. 866. 53 columns. I.
- THE COPPER LODES OF NEW CALE-DONIA. By E. A Weinberg T. Au. I. M. E., vol. 7, p. 138. 12 pages. I.
- COPPER MINING IN NEW JERSEY. By H. B. Kümmel. E & M. J, vol. 87, p. 808. 2 columns.
- BURRO MOUNTAIN MINING DISTRICT, NEW MEXICO. E. & M. J., vol. 89, p. 1121. 3 columns. I.

- Burro Mountain Mining District. By I. J. Stauber. M. & M., vol. 30, p. 380. 4½ columns. I.
- THE COPPER DEPOSITS OF SOUTH MOUNTAIN IN SOUTHERN PENN-SYLVANIA. By G. W. Stose. U. S. G. S., Bull. 430, p. 122. 10 pages. I 1909.
- COPPER IN THE PHILIPPINES. By W. D. Smith E. & M. J., vol 89, p. 30. 1 column
- THE ATBASAR COPPER DISTRICT. By W. Pellew-Harvey. Min. Mag, London, vol. 2, p. 59. 8 columns. I.
- Notes on the Zangezour Copper Mines. By A. L. Simon. T. I. M. & M., vol 18, p. 413. 12 pages.
- THE RIO TINTO COPPER DISTRICT. By J. W Gregory. T. Au. I M. E., vol. 10, p. 165. 14 pages. I.
- DUCKTOWN COPPER DEPOSIT, TENNESSEE. By J. W Gregory. T. Au. I. M. E, vol. 10, p. 182. 3½ pages.
- COPPER REGION OF TENNESSEE: A Sketch of the Geology of Tennessee. By R. O Currey. Min. Mag., vol. 8, p. 156 7 pages.
- COPPER IN TURKEY. Min. & Sci. Press, vol. 98, p. 824. 1 column.
- THE COPPER VEINS OF THE SOUTH. By O. M. Lieber. Min. Mag., vol 7, p. 367. 4 pages.
- COPPER DEPOSITS IN THE WESTERN FOOTHILLS OF THE SIERRA NEVADA. By W. Forestner. Mm. & Sci. Press, vol. 96, p. 743. 107 columns. I.
- THE UTAE COPPER MINE. By C. De Kalb. Min. & Sci. Press, vol. 98, p. 516. 9½ columns. I.
- OPERATIONS OF THE UTAH COPPER COMPANY DURING 1908. By D. C. Jackling. E. & M. J., vol. 87, p. 1185. 11²/₄ columns I.
- THE SOUTH UTAH MINE AND MILL. By L. Palmer. M. & M., vol 31, p. 592. 81 columns. I.
- THE BOSTON CONSOLIDATED MINING COMPANY, UTAH. E. & M. J., vol. 85, p. 257. 3 columns.

- BOSTON CONSOLIDATED, BINGHAM, UTAH. By C De Kalb. Min. & Sci. Press, vol. 98, p. 553. 7 columns. I.
- Ore Occurrence at Fortuna Mine, Bingham, Utah. By E R. Zalinski. E. & M. J., vol. 86, p 1191. 14 columns. I
- CHARACTER OF THE CUBAN COPPER MINES. J. C. M I, vol. 13, p. 97 2½ pages.
- "Two Cuban Mines" Copper. By B. B. Lawrence. J. C. M I., vol. 13, p. 91. 18 pages. I.
- EL COBRE COPPER MINE. By B. B. Lawrence M. & M, vol 31, p 235. 10½ columns. I.
- EL COBRE MINES, CUBA By E. G. Tuttle M. & M, vol 31, p. 449. 11 columns. I.
- COPPER ORES IN PORTO RICO. E. & M. J, vol. 88, p 518. ½ column
- A SKETCH OF THE MINES AND COPPER REGION OF SOUTHWESTERN VIR-GINIA. By W. J. Marsh Min. Mag, vol 9, p. 217. 3½ pages.
- COPPER IN SOUTHWESTERN WISCONSIN. By G. H Cox Min. & Sci. Press, vol. 99, p 592. 1½ columns. I.
- COPPER DEPOSITS OF THE HARTVILLE UPLIFT, WYOMING By S H Ball. U. S G. S, Bull. 315, p. 93 14 pages. 1906
- LAKE CREEK, WYOMING, A NEW MIN-ING DISTRICT. By W. Benton. E. & M. J, vol. 86, p 36. 1 column.
- See also Theory of Ore Deposits and Geology of Fuels and Ores.
- See also THE COPPER TRADE

Occurrence of Diamonds

- Diamond-Carbon in Metreorites. Min. & Sci. Press, vol. 95, p. 310. diamond-Carbon in Metreorites.
- THE DIAMOND INDUSTRY IN SOUTH AFRICA. E. & M. J., vol. 85, p. 1106. † column.

- South African Diamond Mines. E & M J, vol. 87, p. 1240. 1½ columns.
- DIAMOND MINING AT DE BEERS P. C. M. & M. Soc S. A, vol 7, p 227. 4½ columns.
- THE ERUPTIVE DIAMOND-BEARING BRECCIAS OF THE BOSHOF DISTRICT, SOUTH AFRICA. By J. P. Johnson. T. I. M. & M, vol 17, p. 277. 8 pages
- VISIT TO PREMIER DIAMOND MINE. P. C. M. & M. Soc S. A., vol. 9, p. 209. 5½ columns I.
- PREMIEE DIAMOND MINE, NEAR PRE-TORIA, TRANSVAAL By E M. Weston. E & M J, vol. 89, p. 369. 10½ columns. I.
- DIAMOND MINES AND ALLUVIAL DE-POSITS, SOUTH AFRICA: The Method Employed in Winning Diamonds on the Vaal River Alluvial Fields. By P. R. Day. T. Au. I. M. E., vol. 6, p. 87. 6 pages. I.
- ALLUVIAL DIAMOND MINING, SOUTH AFRICA. By P. B. Holte M. & M, vol. 29, p. 37. 2 columns. I.
- DIAMONDS IN ARKANSAS. By G. F. Kunz and H. S. Washington T. A. I. M. E., vol. 39, p. 169. 7 pages.
- Some Facts and Corrections Regarding the Diamond Region of Arkansas. By J. C Branner E. & M J, vol. 87, p. 371. 4 columns.
- PRODUCTION OF DIAMONDS FROM THE ARKANSAS FIELD. E. & M. J., vol. 87, p. 155. 1½ columns.
- THE ARKANSAS DIAMOND FIELDS. By O Q. Millar. Min. & Sci. Press, vol. 99, p. 534. 17 columns.
- The Arkansas Diamond Fields in 1909 By J. F. Fuller E & M J, vol. 89, p. 767. 4 columns. I.
- DIAMOND MINES OF ARKANSAS By J. L. Cowan. Min. & Sci Press, vol. 101, p. 178. 4 columns I
- DIAMOND MINE IN PIKE COUNTY, AR-KANSAS. By J. T. Fuller. E & M. J., vol. 87, p. 152. 10½ columns. L.

- SPECULATION ON THE ORIGIN AND FORMATION OF THE DIAMOND, WITH ESPECIAL REFERENCE TO ITS FORMATION AND POSITION AT BINGAR, NEW SOUTH WALES. By T. Mercer. T. Au. I. M. E., vol 3, p 56. 14½ pages.
- Does an Australian Kimberley Exist? By J Plummer. Min & Sci. Press, vol. 99, p 93. 22 columns.
- PROSPECTING FOR "BLACK DIAMONDS"
 By A S. Atkinson. M. & M., vol.
 30, p. 644. 2½ columns
- MINERAL RESOURCES OF THE BAHIA HIGHLANDS, BRAZIL. E. & M. J, vol. 87, p. 1029. 12½ columns. I.
- Brazilian Diamonds. Min. & Sci. Press, vol. 95, p. 24. 1 column.
- OCCURRENCE OF THE DIAMONDS OF BAHIA, BRAZIL E. & M. J., vol 87, p. 984. 5 columns. I.
- THE DIAMOND BEARING HIGHLANDS OF BAHIA, BRAZIL By J. C. Branner. E. & M. J., vol. 87, p. 981, 17½ columns, I; p. 1029, 12½ columns, I.
- Brazilian Diamond Mining E & M. J., vol. 85, p. 442 1 column
- THE DIAMANTINA DISTRICT OF MINAS GERASS. By G. W. Lindsay. E & M. J, vol. 87, p. 856. 2 columns
- MINING FOR GEMS IN BRAZIL. By A. S. Atkinson. E. & M. J., vol. 87, p. 1234. 5 columns
- Diamonds in California. By H. G. Hanks. Min & Sci. Press, vol 20, p. 162, 2½ columns; p. 194, 1 column; vol. 22, p. 140, 1½ columns.
- SEARCH FOR DIAMONDS ON THE PACIFIC COAST. Min. & Sci. Press, vol. 22, p. 358. 1 column.
- See also THEORY OF ORE DEPOSITS and GEOLOGY OF FUELS AND ORES.

Diatomaceous Earths

GERMAN DIATOMACEOUS EARTH. E. & M. J., vol. 87, p. 938. \$\frac{2}{3}\$ column. DIATOMACEOUS DEPOSITS OF NORTHERN SANTA BARBARA COUNTY, CALI-

FORNIA. By R. Arnold and R. Anderson. U S G S, Bull 315, p. 438 10 pages. 1906.

Fuller's Earth Deposits

- PROPERTIES AND TESTS OF FULLER'S EARTH By J T. Porter. U. S. G. S, Bull 315, p 268. 22½ pages. 1906.
- FULLER'S EARTH P. C. M. & M. Soc. S A, vol 9, p. 276. 13 columns.
- FULLER'S EARTH. M. & M., vol. 29, p. 54. 14 columns. I
- FULLER'S EARTH. E & M. J., vol. 87, p. 1000. 2 columns.
- FULLER'S EARTH, KAOLIN AND PEAT IN FLORIDA. By E H. Sellards. E. & M. J, vol. 85, p. 1187 1 column.
- FULLER'S EARTH OF SOUTHWESTERN GEORGIA AND WESTERN FLORIDA. By T. W. Vaughan. U. S. G. S., Mineral Resources, 1901. 13 pages.

Occurrence of Feldspar

- ECONOMIC GEOLOGY OF THE FELDSPAR DEPOSITS OF THE UNITED STATES. By E. S. Bastin. U. S G. S., Bull. 420. 85 pages. I. 1910.
- FELDSPAR AND QUARTZ DEPOSITS OF MAINE By E. S. Bastin. U. S. G. S., Bull. 315, p. 383. 10½ pages. 1908.

Occurrence of Fluorspar

- FLUORSPAR GRADES AND MARKETS. By F. J. Fohs. Min. & Sci Press, vol. 99, p 720. 3½ columns.
- FLUORSPAR. By F J. Fohs Mm. & Sci. Press, vol 98, p. 888. 5 columns.
- FLUORSPAR IN COLORADO. By E. F. Burchard. Min. & Sci Press, vol. 99, p. 258. 6½ columns. Map.
- KENTUCKY FLUORSPAR AND ITS VALUE TO THE IRON AND STEEL INDUSTRIES. By F. J. Fohs. T. A. I. M. E., vol. 40, p. 261. 13 pages.

Occurrence of Glass Sands

- Notes on Various Glass Sands, Mainly Undeveloped By E F. Burchard U. S. G. S, Bull 315, p 377 6 pages. 1906
- THE REQUIREMENTS OF SAND AND LIMESTONE FOR GLASS MAKING By E. F Burchard. U. S G S, Bull 285, p 452 7 pages. 1905
- GLASS-SAND INDUSTRY OF INDIANA, KENTUCKY, AND OHIO By E. F Burchard. U. S G S, Bull. 315, p. 361. 16 pages. 1906.
- GLASS SAND OF THE MIDDLE MISSIS-SIPPI BASIN. By E F. Burchard. U S G. S, Bull 285, p 459. 14 pages. 1905.
- THE GLASS-SAND INDUSTRY IN EAST-ERN WEST VIRGINIA By G. W. Stose. U S G. S., Bull 285, p. 473. 3 pages. 1905
- See also GLASS MAKING.

The Occurrence of Gold

- THE PRESENCE OF GOLD AND SILVER IN DEEP-SEA DREDGINGS. T. A. I. M E, vol 38, p 704. 1 page
- THE GREAT GOLD MINES By T A. Rickard. Min & Sci Press, vol 96, p. 10, 7½ columns, I; p. 161, 5½ columns, I.
- Lodes and Quartz Veins of Gold. By A. Waddington. Mm. Mag, vol. 2, p 21. 3 pages.
- THE ANATOPUR GOLDFIELD. Min. Mag, London, vol 2, p 42. 13 columns. I.
- Some Notes on Banket Deposits, with Special Reference to Those Met With at the Denny-Dalton Goldfields, Vryhied District, South African Republic, and the Process of Treatment Employed There. By G. A Denny T Au. I. M. E., vol. 3, p. 75. 16 pages. I.
- THE CROWN MINES, LIMITED. M. & M., vol. 31, p. 691. 2½ columns.
- CONSOLIDATED GOLD FIELDS OF SOUTH AFRICA, LTD. By E. M. Weston.

- E. & M J, vol. 85, p 355 3\frac{1}{5} columns I.
- THE ROBINSON MINE, SOUTH AFRICA.

 By J B. Pritchford. Min. & Sci.

 Press, vol. 97, p 606. 5 columns
- PRESENT MINING CONDITIONS ON THE RAND: Discussion of the paper of Thomas H. Leggett, p 211 T A. I M E, vol 39, p. 856. 2½ pages.
- Notes on Rand Mining By T. Johnson. P C. M & M Soc. S. A., vol 8, p 255, 23 columns, I, p. 305, 1 column, p 346, 12½ columns, p. 381, 3 columns; vol 9, p. 13, 15 columns, I; p. 48, 1 column; p. 82, 24 columns, I.
- THE GREAT MINES OF THE RAND.

 By T A. Rickard. Min Mag,

 London, vol 2, p 213. 7½ columns.

 I.
- PRESENT MINING CONDITIONS ON THE RAND By T H Leggett. T A. I M E, vol 39, p 211 12½ pages.
- REMINISCENCES OF THE EARLY RAND.

 By M H. Coombe P. C M & M.

 Soc S A, vol 9, p 38, 7½ columns;

 p 123, 5 columns, p 204, 4 columns;

 p 227, 10 columns, I; p. 272, 5

 columns
- PRESENT MINING CONDITIONS ON THE RAND. By T. H Leggett. E & M. J, vol. 85, p. 1239. 10 columns
- FURTHER NOTES ON RAND MINING. By T. Johnson. P. C. M. & M Soc. S. A., vol. 10, p. 276, 11½ columns, I.; p 319, 1½ columns; p. 449, 6 columns; p. 394, 8½ columns, I
- REMINISCENCES OF THE EARLY RAND. By J. S MacArthur E. & M. J, vol. 88, p. 357 41 columns.
- MINING CONDITIONS ON THE RAND. By T. H. Leggett. Mm. & Sci. Press, vol. 96, p. 812. 91 columns. I.
- THE PRINCIPAL MINES OF THE TRANS-VAAL. Min. & Sci. Press, vol 96, p. 10 2 columns. Table.

- THE PILGRIM'S REST GOLD FIELDS AND MINING METHODS. By J. Moyle-Phillips P. C. M. & M. Soc. S. A., vol. 9, p. 293, 16 columns, I.; p. 349, 3½ columns; p. 395, 2 columns, I.
- VISITING THE GOLD COAST, WEST AFRICA. By F. F. Sharpless. Min. & Sci. Press, vol. 101, p. 800. 7 columns. Map
- A WEST AFRICAN GOLD MINE. E. & M. J, vol. 87, p. 1005. 1½ columns.
- THE WEST AFRICAN, GOLDFIELD. E. & M J., vol. 87, p. 905. 1 column.
- West Africa, the Gold Coast Colony, and Ashanti in 1908 By W. F. Wilkinson E. & M. J, vol. 87, p. 196. 3½ columns.
- EARLY DAYS ON THE GOLD COAST. By E T McCarthy. Min. Mag, London, vol. 1, p 291. 62 columns.
- West African Mines. By J. H. Curle. Min. Mag., London, vol 1, p 42 6 columns. I.
- GOLD MINING IN WEST AFRICA E. & M. J., vol. 85, p. 1282 1 column.
- THE BARBERTON GOLDFIELD IN SWAZI-LAND. E. & M. J., vol. 89, p. 669. 2‡ columns.
- THE BARBERTON GOLDFIELD, SOUTH AFRICA. By A. Richardson. P. C. M. & M. Soc S. A., vol. 10, p. 122 25 columns.
- NOTES ON THE GOLD OF THE ROODE-POORT DISTRICT By G. Andreoli. P. C. M. & M. Soc. S. A., vol. 5, p. 73, 4 columns; p. 152, 1 column.
- MINING IN SOUTHERN RHODESIA By A. H. Ackermann. Min. Mag., London, vol. 2, p. 138. 6 columns. I.
- SMALL MINES OF RHODESIA. By B. I. Collings. P. C. M. & M. Soc. S. A., vol. 9, p. 76, 10 columns; p. 126, 3½ columns; p. 166, 2½ columns; p. 206, 2 columns; p. 275, 1½ columns.
- STAR OF THE CONGO MINE Min. & Sci Press, vol. 100, p 260. 2 column. I.

- Mining Conditions in the Belgian Congo (Congo Free State). By S. H. Ball and M. K. Shaler. T. A. I. M. E, vol 41, p. 189. 9 pages. I.
- The New Good Gold Mines, Ltd. P. C. M. & M. Soc. S. A., vol. 5, p 57. 10 columns.
- Notes on Some Gold Deposits of Alabama. By H. D McCaskey. U. S. G. S., Bull 340, p. 36. 17 pages. 1907
- SOME ECONOMIC GOLD DEPOSITS OF ALASKA. By F C Lincoln E. & M. J., vol 90, p. 551. 11 columns.
- GOLD MINING IN ALASKA. By A. H. Brooks. E. & M. J, vol 85, p. 311. 3 columns.
- AURIFEROUS QUARTZ VEINS IN THE FAIRBANKS DISTRICT, ALASKA. By L. M. Prindle. U. S. G. S., Bull. 442, p. 210. 20 pages. I. 1909.
- AURIFEROUS QUARTZ VEINS ON UN-ALASKA ISLAND. By A. J. Collier. U. S. G. S., Bull 259, p. 102. 2 pages.
- GOLD DEPOSITS OF THE SHUMAGIN ISLANDS. By G. C Martin. U S. G. S., Bull 259, p. 100. 2 pages
- OCCURRENCE OF GOLD IN TREADWELL. ORE DEPOSITS. U. S. G. S, Bull. 259, p. 82 ½ page.
- THE ALASKA-TREADWELL MINES.

 Min. Mag, London, vol. 2, p. 142,
 2 columns, I; vol. 3, p. 278, 4 columns, I
- THE TREADWELL ORE DEPOSITS Min. & Sci Press, vol 95, p. 117. 6½ columns I.
- THE TREADWELL GROUP OF MINES.

 By A. C. Spencer. Min & Sci.

 Press, vol 95, p. 117. 6½ columns. I.
- THE JUNEAU GOLD BELT, ALASKA. By A. C. Spencer. U S. G. S, Bull. 287. 161 pages. I. 1906.
- Lode Mining in Southeastern Alaska, 1907. By C. W. Wright. U. S. G. S., Bull 345, p. 78. 20 pages. I. 1907.

- LODE MINING IN SOUTHEASTERN ALAS-KA. By C. W. Wright. U. S. G. S., Bull. 314, p. 47. 28 pages. I. 1906.
- YAKUTAT BAY REGION Min. & Sci. Press, vol. 99, p. 719. 1 column.
- MINING ON PRINCE OF WALES ISLAND, ALASKA. By W. A. Scott. Min & Sci. Press, vol. 98, p. 885 32 columns. I.
- MINING AT SHUNGNAK, ALASKA By L. Lloyd. Min. & Sci. Press, vol. 101, p. 109. 2 columns. I.
- THE KOYNKUK-CHANDLAR GOLD REGION, ALASKA. By A. G Maddren. U S. G. S., Bull. 442, p. 284 32 pages I. 1909.
- GOLD OF PRINCE WILLIAM SOUND. By U. S. Grant. U. S. G. S, Bull. 379, p. 97. 1 page. 1908.
- GOLD FIELDS OF THE SOLOMON AND NINKLUK RIVER BASINS. By P S. Smith. U. S. G. S, Bull. 314, p. 146. 11 pages. 1906.
- OCCURRENCE OF GOLD IN THE YUKON-TANANA REGION, ALASKA. By L. M. Prindle. U. S. G. S., Bull. 345, p. 179. 10 pages. I. 1907.
- PLACER GOLD DEPOSITS OF ALASKA E. & M. J., vol. 90, p. 551. 6 columns
- NEW PLACERS IN ALASKA. Min. & Sci. Press, vol. 97, p 842. 2 columns. Map.
- RAMPART PLACER REGION. By L. M. Prindle and F. L. Hess. U. S. G. S., Bull. 259, p. 104. 15 pages.
- THE RAMPART PLACERS, YUKON-TANANA REGION, ALASKA. By F. L. Hess. U. S. G S, Bull. 337. 102 pages. I. 1908.
- THE RAMPART GOLD PLACER REGION ALASKA. By L. M. Prindle and F. L. Hess. U. S. G. S., Bull. 280. 54 pages. I. 1906.
- THE GOLD PLACERS OF THE FORTY-MILE, BIRCH CREEK, AND FAIRBANKS REGIONS, ALASKA. By L. M. Prindle. U. S. G. S., Bull. 251. 89 pages. I. 1905.

- THE FORTY-MILE GOLD-PLACER DISTRICT, ALASKA. By L. M. Prindle. U. S. G. S., Bull. 345, p. 187. 12 pages. 1907
- THE INNOKO GOLD-PLACER DISTRICT, ALASKA, WITH ACCOUNTS OF THE CENTRAL KUSKOKWIN VALLEY AND THE RUBY CREEK AND GOLD HILL PLACERS. By A G. Maddren. U.S.G.S., Bull 410. 87 pages. I. 1910.
- GOLD PLACERS OF THE INNOKO DISTRICT. By A. G Maddren. U. S. G. S., Bull. 379, p. 238 29 pages. 1908.
- PRELIMINARY REPORT ON THE CAPE NOME GOLD REGION, ALASKA By F. C. Schrader, and A. H. Brooks. U. S. G. S., Special Publications, 1900. 56 pages. I.
- The Nome Region, Alaska. By F. H Moffit. U S. G. S., Bull. 314, p. 126. 18 pages. I. 1906.
- The Gold Placers of Turnagain Arm. By F. H Moffitt. U S G. S., Bull. 259, p. 90. 9 pages I.
- THE CAPE YAKTAZ PLACERS By G. C. Martin. U. S. G. S., Bull 259, p. 88. 2 pages.
- The Iron Creek Region. By P. S. Smith. U S. G. S, Bull 379, p 302. 53 pages. I. 1908.
- PLACERS OF THE GOLD HILL DISTRICT. By A. G. Maddren. U. S. G. S, Bull. 379, p. 234. 3 pages. 1908.
- GOLD PLACERS OF THE RUBY CREEK DISTRICT. By A. G Maddren. U S. G. S., Bull. 379, p. 229. 5 pages. I. 1908.
- THE GOLD PLACERS OF PARTS OF SEWARD PENINSULA, ALASKA, INCLUDING THE NOME, COUNCIL, KOUGAROK, PORT CLARENCE, AND GOODHOPE PRECINCTS. By A. J. Collier. U. S. G. S., Bull. 328. 343 pages. I. 1908.
- THE FAIRBANKS GOLD PLACER REGION. By L. M. Prindle and F. J. Katz. U. S. G. S., Bull. 379, p. 181. 20 pages. I. 1908.

- YUKON GOLD. By O. B. Perry. Min. & Sci. Press, vol. 96, p. 556. 3 columns.
- THE PORCUPINE PLACER DISTRICT, ALASKA By C. W. Wright. U. S. G. S., Bull. 236. 35 pages. I. 1904.
- THE FAIRHAVEN GOLD PLACERS OF THE SEWARD PENINSULA, ALASKA. By F. H Moffit. U. S. G. S., Bull 247. 85 pages. I. 1905.
- GOLD PLACERS OF THE MULCHATNA, ALASKA. By F. J. Katz U. S. G. S, Bull. 442, p. 201. 1½ pages. 1909.
- PELLY, ROSS AND GRAVEL RIVERS. By J. Keele. Min & Sci. Press, vol. 99, p 66 2 columns
- Haines District, Alaska. By W A. Scott. Min. & Sci. Press, vol. 99, p. 198. 2½ columns. I.
- PLACERS OF TIERRA DEL FUEGO. By S. H. Loram. Mm & Sci. Press, vol. 99, p. 125. 63 columns.
- THE OCTAVE MINE, ARIZONA. By J. E. Russell. E. & M J., vol. 85, p. 211. 1½ columns. I.
- The Gold Road Mine, Arizona. By J. C. Kennedy. Min. & Sci. Press, vol. 101, p. 773. 1½ columns.
- Notes on the Placer Deposits of Greaterville, Arizona By J. M. Hill. U. S. G. S., Bull. 430, p. 11. 12 pages. I. 1909.
- THE MOUNT MORGAN GOLD AND COPPER MINE. By G. W. Williams. E. & M. J., vol. 87, p. 635. 12½ columns. I.
- OCCURRENCE OF ORE IN MOUNT MOR-GAN MINE. E. & M. J., vol. 87, p. 747. 1 column.
- THE MOUNT MORGAN MINE, CENTRAL QUEENSLAND. By J. B. Wilson. E. & M. J., vol. 87, p. 746. 19 columns. I.
- NATURE OF THE MOUNT MORGAN ORE DEPOSITS. E. & M. J., vol. 87, p. 635. 1½ columns.

- THE MOUNT MORGAN MINE. By O. M. Colvocosesses. M. & M., vol. 29, p 3 4½ columns. I.
- THE MOUNT MORGAN MINE. Min & Sci Press, vol. 95, p. 524. 3 columns. I.
- TELLURIUM IN THE ORES OF THE HAURAKI GOLDFIELDS, NEW ZEALAND By F. B. Allen. T. Au. I. M. E, vol 7, p. 94. 4 pages.
- THE SYNCLINAL OR "INVERTED SAD-DLE" REEFS OF THE BENDIGO GOLD-FIELD. By W. H. Cundy. T. Au. I M. E., vol 8, pt. 2, p. 278. 10 pages. I.
- Notes on the Lefroy Goldfields. By L. Jolly. T. Au. I. M. E, vol. 4, p. 132. 6 pages.
- MINING ON PRIVATE PROPERTY ON THE GOLDFIELDS OF WESTERN AUS-TRALIA. By E. Lidgey. T. Au I. M. E., vol. 8, pt. 1, p. 1 10 pages. I.
- The Gold Fields of Victoria Min. & Sci Press, vol. 20, p. 120, 1 column; p. 130, 1½ columns; p. 234, 2 columns, p. 266, 1 column.
- Notes on the Geology, Quartz Reefs and Minerals of the Waihi Goldfield, New South Wales, Australia. By P. C. Morgan. T Au. I. M. E., vol. 8, pt. 2, p. 164. 23½ pages. I.
- GOLD IN SALT LARBS IN WESTERN AUSTRALIA. T. Au. I. M. E., vol. 8, pt. 1, p. 32. 1 page.
- Notes on the Auriferous Devonian Formations of Gippsland, Victoria. By H. Herman. T. Au. I. M E, vol. 5, p. 157. 12 pages. Maps.
- A FEW NOTES AND OBSERVATIONS ON THE REDUCTION AND ORE-DRESSING OF AURIFEROUS QUARTZ VEINSTONE IN VICTORIA. By H. Rosales. T. Au. I. M. E., vol. 5, p. 81. 12 pages. Tables.
- AURUFEROUS VEINS AT CHARTERS TOWERS, AUSTRALIA. By W. J. Paull. T. Au. I. M. E., vol. 3, p. 243. 6 pages.

- Some Gold-Bearing Rocks at Bingara, New South Wales. By C C. H. Mole T. Au I M E, vol 2, p 114 2½ pages
- Physiography and Geology of the Wadnaminga Goldfields, South Australia. By F. D Johnson T. Au I M E., vol. 2, p. 58. 10 pages. I.
- GOLD DEPOSITS OF COTHY, SOUTH WALES By B. W. Holman. Mm. Mag., vol. 4, p. 374. 8\(\frac{2}{3}\) columns. I.
- LEADING PRODUCERS OF KALGOORLIE, WEST AUSTRALIA. By G. W. Wilhams E. & M. J, vol 85, p 403. 3½ columns.
- IMPRESSIONS OF THE COUNTRY BETWEEN COOLGARDI AND McDon-NELL RANGES. By H. V. Smith. T Au I. M E, vol. 8, pt. 1, p. 68. 4½ pages.
- THE DISCOVERY AND OCCURRENCE OF TELLURIDE OF GOLD UPON THE KALGOORLIE GOLDFIELDS, EAST COOLGARDI DISTRICT, WESTERN AUSTRALIA By A G. Holroyd T. Au. I M E, vol. 4, p. 186. 8 pages.
- ALLUVIAL DEPOSITS IN WESTERN AUSTRALIA T. Au. I. M. E, vol 13, p. 182 2 pages.
- DEEP LEAD MINING IN AUSTRALIA. By D. H. Browne. Min. & Sci. Press, vol. 97, p. 565. 9½ columns. I.
- DEEF LEADS OF VICTORIA: The Cainozoic Buried Auriferous River Deposits. By H. L. Wilkinson. T. I. M & M., vol. 17, p. 210. 58 pages. I.
- Gold Nuggers of Victoria. T. Au. I. M E., vol. 2, p. 23. 1 page.
- THE BOICZA GOLD MINES IN HUN-GARY. By N B. Knox. Min. & Sci. Press, vol. 100, p. 31. 8 columns I.
- THE GOLD ALLUVIALS OF THE RIVER DRAU IN HUNGARY. By A. Von Gernet. T. I. M. & M., vol. 17, p. 439. 4 pages.

- THE VERESPATAK-ABRUDBANYA (GOLD)
 DISTRICT, HUNGARY By G. Slujka.
 E & M. J., vol 85, p 154. 1½ columns
- GOLD DEPOSITS IN BOLIVIA. M & M, vol. 30, p. 379. 1 column. Map.
- THROUGH THE BOLIVIAN HIGHLANDS. By E P. Mathewson. Min. & Sci. Press, vol. 97, p. 227, 4 columns; p. 263, 8½ columns, I.
- SUCHEZ DE BOLIVIA HYDRAULIC MINE By W. E. G. Firebrace Min & Sci Press, vol. 98, p. 287. 3 columns I.
- AURIFEROUS ALLUVIALS OF THE UPPER AMAZON VALLEY. By Sir W M Conway. E. & M. J., vol. 87, p. 496. 2 columns.
- THE CENTRE STAR GROUP OF MINES, ROSSLAND, BRITISH COLUMBIA. By R. H. Allen E. & M. J., vol 89, p. 17. 8½ columns. I.
- LE ROI MINE AT ROSSLAND, BRITISH COLUMBIA. By R. H. Allen. E & M. J., vol. 89, p. 220. 4 columns. I.
- BEAR RIVER DISTRICT, BRITISH CO-LUMBIA. By W W. Rush. Min & Sci Press, vol. 99, p. 152 2 columns. Map
- THE PORTLAND CANAL MINING DISTRICT, BRITISH COLUMBIA. E. & M. J, vol. 90, p. 451 3 columns. I.
- CALIFORNIA GOLD MINING. Min. & Sci Press, vol. 100, p 17. 3 columns. I.
- MINERAL PROSPECTS AROUND DEATH VALLEY. By R. E. Rinehart. Min. & Sci. Press, vol. 97, p. 297. 4½ columns. I.
- MINERAL DISTRICT OF CENTRAL CALIFORNIA By J. B. Trask. Mm. Mag., vol. 3, p. 121, 15 pages; p 239, 12 pages.
- MINES AND MINING IN CALIFORNIA: Placer Mining. Min. Mag., vol. 5, p. 193. 23 pages,
- QUARTZ MINING OPERATIONS IN CALI-FORNIA Min. Mag., vol. 1, p. 144. 5½ pages.

- EXPERIENCE OF THE GOLD MINES OF CALIFORNIA. Min. Mag., vol. 8, p 28, 12 pages; p. 129, 8½ pages; p. 222, 6 pages; p. 477, 10 pages.
- THE NEW GOLD FIELD IN SAN DIEGO COUNTY, CALIFORNIA. Min. & Sci. Press, vol. 20, p. 200. 1 column.
- MINING ON THE MOTHER LODE IN AMADOR COUNTY, CALIFORNIA. By W. H. Storms Min. & Sci. Press, vol. 100, p. 897. 6 columns
- THE EXPOSED TREASURE LODE, MO-JAVE, CALIFORNIA. By C. De Kalb. T. A. I. M. E., vol. 38, p. 310. 10 pages. I.
- THE STANDARD MINE, BODIE, CALI-FORNIA. By R. G. Brown. T. A. I. M. E., vol. 38, p. 343. 15 pages. I.
- OBSERVATIONS ON THE EXTENT OF THE GOLD REGION OF CALIFORNIA AND OREGON. By W. P. Blake. Min. Mag., vol. 5, p. 32. 14 pages.
- HART: A New California Gold Camp. E. & M. J., vol. 85, p. 308. ½ column.
- GOLD PARK DISTRICT, CALIFORNIA. E. & M. J., vol. 90, p. 600. 2 columns. I.
- BLACK DIAMOND, CALIFORNIA. By O. H. Hershey. Min. & Sci. Press, vol. 98, p. 147. 1½ columns.
- GOLD MINING IN RANDSBURG QUAD-RANGLE, CALIFORNIA. By F. L. Hess. Min. & Sci. Press, vol. 101, p. 508. 4 columns; p 533, 8 columns, I.
- GOLD MINING IN THE RANDSBURG QUADRANGLE, CALIFORNIA. By F. L. Hess. U. S. G. S., Bull. 430, p. 23. 24 pages. 1909.
- Hoag District, California. By N. C. Stines. Min. & Sci. Press, vol. 100, p. 384. 5\frac{3}{2} columns. I.
- KEYSTONE CONSOLIDATED MINE AND ITS EARLY HISTORY. By W. H. Storms. Min. & Sci. Press, vol. 100, p. 755. 4 columns. I.
- MINING AT GRASS VALLEY AND NE-VADA CITY. By G. E. Walcott. E. & M. J., vol. 87, p. 396. 62 columns. I.

- MINING AT ALLEGHANY, CALIFORNIA.

 By F. L. Lowell. Min. & Sci.

 Press, vol. 100, p. 132. 3 columns. I.
- Some Ore Deposits in the Inyo Range, California. By J. A. Reid. Min. & Sci. Press, vol 95, p. 80 4½ columns. I.
- GOLD MINES NEAR THE CALAVERAS BIG TREES. Min. & Sci. Press, vol. 22, p. 361. 1 column.
- THE WEAVERVILLE-TRINITY CENTER GOLD GRAVELS, TRINITY COUNTY, CALIFORNIA. By D. F. MacDonald. U. S G. S., Bull. 430, p. 48. 11 pages. I 1909.
- Santa Clara River Placers By C. E. Jamison. Min. & Sci. Press, vol. 100, p. 360. 2\frac{3}{4} columns.
- La Grange Hydraulic Mine, California. By D. F. Campbell. Min. & Sci Press, vol. 97, p. 491. 6 columns. I.
- GOLD AREAS IN THE CANADIAN NORTH-WEST. E. & M. J., vol. 90, p. 548 4 columns.
- Gold in the Eastern Townships of the Province of Quebec. By J. Obalski. J. C. M. I., vol. 11, p. 251. 6 pages. I. Map.
- THE LARDER LAKE DISTRICT, ON-TARIO. E. & M. J., vol. 85, p. 258. 2 columns.
- THE NICKEL PLATE MINE AND MILL. Min. & Sci Press, vol. 101, p. 271. 4 columns. L.
- RECENT MINING DEVELOPMENTS ON THE SKEENA RIVER, CANADA. By W. W. Leach. J. C. M. I., vol. 13, p. 357. 6 pages.
- THE OPASATIKA LAKE DISTRICT, PROV-INCE OF QUEBEC. By F. Cirkel. E. & M. J, vol. 87, p. 455. 3 columns. I.
- THE NEW GOLDFIELDS OF PORCUPINE, ONTARIO By R E. Hore. E. & M. J., vol. 90, p. 1296. 31 columns. I.

- THE PORCUPINE DISTRICT, ONTARIO. By R. W. Brock E. & M. J, vol. 90, p. 221. 3 columns.
- THE PORCUPINE GOLDFIELD. By A. L. SIMON. Min Mag, London, vol. 3, p. 348. 6 columns I.
- PORCUPINE, THE NEW GOLD REGION OF THE FAR NORTH. Min. & Sci Press, vol. 101, p. 705. 3\frac{2}{3} columns.
- PORCUPINE DISTRICT OF ONTARIO. By W. G. Miller. Min & Sci. Press, (vol. 101, p. 232. 2 columns. Map.
- PORCUPINE LAKE REGION, ONTARIO. E & M. J., vol. 89, p 209 3½ columns. Map.
- THE PORCUPINE GOLDFIELD. By W. J. Loring. Min Mag., vol. 4, p 284. 8 columns I.
- THE PORCUPINE GOLD FIELD. By R. A. Meyer. M. & M, vol. 31, p. 701. 4½ columns. Map.
- A BRIEF DESCRIPTION OF THE GOW-GANDA SILVER DISTRICT IN ONTARIO, CANADA. By P. R. Ireman. Sch. Mines Quart., vol. 31, p. 172 4½ pages. I.
- First Year of the Gowganda District, Ontario. By G. M. Colvocosesses. E & M. J., vol. 89, p. 1218. 9½ columns. I.
- THE GOWGANDA REGION IN ONTARIO. E. & M. J., vol. 88, p. 60. 5 columns.
- IMPRESSIONS OF A NEW CAMP: Gowganda. By H. E. West. E. & M. J., vol. 87, p. 900. 7 columns.
- NOTES ON THE RAINY RIVER DISTRICT, ONTABIO. By. W L. Fleming. E. & M. J., vol. 88, p. 1064. 62 columns. I.
- THE EASTERN CANADIAN MINERAL BELT. By T. F. Van Wagenen. Min. & Sci. Press, vol. 101, p. 372. 52 columns. Map
- MONTREAL RIVER DISTRICT, CANADA. By W. H. Collins. Min. & Sci. Press, vol. 98, p. 895. 2 columns.
- THE PROGRESS OF GOLD MINING IN NORTH CAROLINA. By E. W. Lyon.

- E & M J, vol. 87, p 293. 13½ columns. I.
- ORE DEPOSITS OF THE EASTERN GOLD-BELT OF NORTH CAROLINA By W. O. Crosby. T. A. I. M. E., vol. 38, p. 849. 9 pages.
- Notes on the Gold Regions of North and South Carolina. By S. P. Leeds. Min. Mag., vol 2, p 27, 6 pages; p. 357, 12 pages, I.
- MINES AND MILL OF MONTEZUMA MINES, COSTA RICA. By S F. Shaw. E. & M J., vol. 90, p 715. 6 columns. I
- GOLD REGION OF THE STRAIT OF MA-GELLAN By R. A. T. Penrose. Min & Sci. Press, vol. 98, p. 153. 3½ columns.
- THE GOLD DEPOSITS OF FRENCH GUIANA. E & M.J, vol 87, p 400. 2² columns. I
- THE GOLD-FIELDS OF FRENCH GUIANA AND THE NEW METHOD OF DREDG-ING By A. F. J. Bordeaux. T. A. I M. E., vol. 41, p 567. 28 pages. I.
- GOLD-BEARING GRAVELS IN FRENCH GUIANA. T. A. I M. E, vol 41, p 575. 10 pages
- Gold Mines of Tiber. By A. Del Mar. Min. & Sci Press, vol. 100, p 254. 3 columns.
- GOLD MINING IN COLOMBIA. By F. L Garrison. Min. & Sci Press, vol. 98, p. 217. 12½ columns. I.
- Pasto Gold District, Colombia. Min. & Sci. Press, vol. 100, p. 583. 2 columns. I.
- QUARTZ MINES IN COLOMBIA, SOUTH AMERICA. By F. F. Sharpless. Min & Sci. Press, vol. 97, p. 422. 4½ columns. I.
- GOLD MINING IN COLOMBIA. By F. L. Garrison. Min. Mag., London, vol. 2, p. 369. 15½ columns. I.
- THE FUTURE GOLD OUTPUT OF COLOMBIA By H. G. Granger. T. A. I. M. E., vol. 39, p. 315. 10 pages.
- ALLUVIAL GOLD DEPOSITS AND MIN-ING IN COLOMBIA. By P. A. Alig.

- E. & M. J, vol. 90, p. 1098. 4 columns.
- COLOMBIAN GOLD PLACERS T. A I. M. E, vol. 39, p 418. 1 page. Table
- PRIMARY GOLD IN COLORADO GRANITE. By J. B. Hastings. T A I. M. E., vol. 39, p. 97. 6 pages. I.
- LESSONS FROM GILPIN COUNTY PRACTICE By G. E. Collins. Min & Sci. Press, vol. 101, p. 366. 11½ columns.
- THE ALICE MINE. Colorado's Largest Ore Body. By R. L. Herrick M. & M, vol 29, p 294. 6 columns I.
- REPORT ON THE POVERTY GULCH MINE. By C. W. Henderson. M. & M, vol. 31, p. 586, 5½ columns, I; p. 694, 7 columns, I.
- GOLD ORE NEAR NEWCASTLE, COLO-RADO By F. Rickard. Min & Sci. Press, vol. 99, p 503. 1 column. I.
- The San Juan Region, Colorado. By T. T. Read. Min. & Sci. Press, vol. 97, p. 632, 8 columns, I; p. 668, 10 columns, I
- GOLD DEPOSITS OF SAN JUAN, COLO-RADO. By W. C. Prosser. M. & M, vol. 31, p. 335. 5 columns. I.
- MINING IN THE SAN JUAN, COLORADO.

 By W. H. Storms. Min & Sci.

 Press, vol. 101, p 610, 5½ columns,

 I; p 737, 6½ columns, I.; p. 865,

 3½ columns, I.
- THE CRESSON MINE, CRIPPLE CREEK, COLORADO. By R. L. Herrick. M. & M., vol. 31, p. 735. 11½ columns. I.
- LA PLATA MOUNTAINS, COLORADO. By R H. Toll. Mm. & Sci. Press, vol. 97, p. 741. 6½ columns. Map.
- TREASURE MOUNTAIN, COLORADO. By C W. Purington. Min. & Sci. Press, vol. 97, p. 23. 5½ columns. I.
- LAKE FORK EXTENSION OF THE SIL-VERTON MINING AREA, COLORADO. By L W. Woolsey. U. S. G. S. Bull. 315, p. 26. 5 pages. 1906.

- Miningin Georgetown Quadrangle. By S. H. Ball M & M, vol. 30, p. 205 9½ columns. Map.
- HOHNS PEAK, COLORADO. E & M J., vol. 86, p 809. 2½ columns. I
- GOLD PLACER DEPOSITS NEAR FAY, ROUTT COUNTY, COLORADO By H. S. Gale. U.S. G.S, Bull. 340, p. 84. 13 pages I. 1907.
- THE BLACK HILLS OF SOUTH DAKOTA.

 By W. H. Storms. Min & Sci.

 Press, vol 101, p 114, 5 columns, I.;

 p. 144, 7 columns, I; p 264, 7 columns, I; p. 500, 6 columns; p. 571,

 6 columns, p. 669, 6 columns, I.
- DRY PLACERS OF THE BLACK HILLS.
 Min. & Sci. Press, vol. 101, p. 571.
 1½ columns.
- PLACERS OF THE BLACK HILLS, SOUTH DAKOTA Min & Sci Press, vol. 101, p. 573. 2 columns
- GOLD MINING INDUSTRY IN THE DUTCH EAST INDIES. By E A. Winton. E & M J, vol. 88, p 513. 4½ columns. Map.
- OCCURRENCE OF AURIFEROUS AND STANIFEROUS TOURMALINE IN SUMATRA. By L Hundeshagen. E. & M. J, vol. 87, p. 1003. \(\frac{1}{2}\) column.
- Gold Mining in Egypt. By C. S. Herzig. Min. & Sci. Press, vol. 95, p. 212. 4½ columns. I.
- An English Gold Mine E. & M. J, vol 86, p. 98. 2 column.
- THE BRITISH GOLD FIELDS, ENGLAND. Min. Mag., vol. 2, p. 282, 3 pages; p. 376, 2 pages.
- GOLD MINING IN FRANCE. By T. A. Rickard. Min. Mag, London, vol. 1, p. 283. 4 columns. I.
- GOLD IN FRANCE. P. C M. & M. Soc. S. A, vol. 7, p. 315. ½ column.
- THE GREATEST GOLD MINE OF FRANCE. By T. T. Read. Min. Mag. London, vol. 4, p. 209. 7 columns. I.
- THE THREE PRODUCING GOLD MINES OF FRANCE. By E. Walch. E & M. J., vol. 87, p. 792 6 columns. I.

- GOLD DEFOSITS OF GEORGIA. By E K. Soper. Min. & Sci. Press, vol 100, p. 923. 3½ columns.
- MOORE'S GOLD MINES, DARLONEGA, GEORGIA Min Mag, vol. 2, p. 24. 3 pages.
- THE GOLD PLACERS OF LUMPKIN COUNTY, GEORGIA. Min. Mag., vol. 10, p. 457. 20 pages.
- ATLANTA GOLD DISTRICT, IDAHO. By R. N Bell. E & M J, vol. 86, p. 176. 4 columns. I
- Boise Basin, Idaho. By W A Scott. Min. & Sci. Press, vol. 101, p 76. 6 columns. I.
- GOLD MINING IN KOREA, 1910 By J. D Hubbard. Min. & Sci Press, vol. 101, p. 236. 5 columns. I.
- GOLD DEPOSITS IN JAPAN. Min. & Sci. Press, vol. 101, p 842. 23 columns.
- THE PLACER DEPOSITS OF KOREA.
 T. A. I. M. E, vol 39, p. 266. 2
 pages. I
- COPPER-GOLD SMELTING AT MAGISTRAL. By R. Linton. Min & Sci. Press, vol. 97, p 843. 61 columns. I.
- THE ARTEAGA MINING DISTRICT, CHIHUAHUA, MEXICO. E & M J., vol. 89, p. 618 3 columns I.
- ARTEAGA DISTRICT, CHIHUAHUA, MEXICO By W. B Winston Min. & Sci. Press, vol 98, p. 829. 3½ columns. I.
- THE CALABACILLAS MINE, CHIHUAHUA.
 By R. T. Sill. E. & M. J., vol. 90,
 p. 359. 1½ columns. I
- MINING OPERATIONS IN THE STATE OF CHIHUAHUA, MEXICO. By W. H. Seamon. E & M. J, vol. 90, p. 654. 6½ columns.
- THE ARTEAGA DISTRICT, CHIHUAHUA.

 By L. T. Pockman E & M. J.,

 vol. 90, p. 656. 3½ columns. I.
- YOQUIVO MINE AND MILL, WESTERN CHIHUAHUA. By W. H. Seamon. E. & M. J., vol 90, p 811. 4 columns. I.

- Pachuca District, Mexico By J. L Mennell. Min. & Sci. Press, vol. 100, p. 455. 3 columns. I
- Santa Gertrude's and La Blanca Mines, Pachuca, Mexico. E. & M. J., vol 88, p. 670. 1 column I.
- THE SANTA GERTRUDE'S MINE, PA-CHUCA, MEXICO E & M. J., vol. 89, p 214. 9 columns. I
- Some Features of Mining at Pachuca, Mexico. E. & M. J, vol. 86, p 1051. 4½ columns
- SAN RAFAEL Y ANEXAS MINING COM-PANY, PACHUCA, MEXICO. By E. Girault. E. & M. J., vol. 90, p. 643. 9 columns I.
- Las Pilares Mine, Sonora, Mexico. By E. M. Robb. M. & M., vol. 31, p. 106. 11½ columns. I.
- OCCURRENCE OF GOLD AND SILVER ORES AT THE LAS PILARES MINE. M. & M, vol. 106 2½ columns. I.
- MINAS PEDRAZZINI OPERATIONS NEAR ARIZPE, SONORA, MEXICO. By E. L. Dufourcq. E. & M. J., vol. 90, p. 1105. 5\frac{1}{2} columns
- Mining in Oaxaca, Mexico. By E. M. Lawton Min. & Sci. Press, vol 99, p 232. 3½ columns I.
- THE ESPERANZA MINE, EL ORO, MEXICO. By W. E. Hindry Min. Mag., London, vol 1, p 131. 101 columns. I.
- ORE OF THE ESPERANZA MINE, MEXIco. Min & Sci. Press, vol 99, p. 847. 2½ columns.
- MINING IN THE ALAMOS AND ARTEAGA
 DISTRICTS. By G. M. Bloomer.
 E. & M. J., vol. 87, p. 699. 6 columns. I.
- ALAMOS-PROMONITOS DISTRICT, MEXIco. By T. P Brinegar. Min. & Sci. Press, vol. 100, p. 553. 3 columns. I.
- MINING AND SMELTING AT ACHOTTA MINE, GUERRERO, MEXICO. By W. B. Devereux, Jr. E. & M. J., vol. 90, p. 663.

- El Rayo Gold Mine, Near Santa Barbara, Mexico By C T. Rice. E & M. J., vol. 86, p. 78. 7 columns. I.
- San Jose de Gracia, a Great Mexican Gold Camp. By E. A. H. Tays. E & M J., vol. 88, p. 640. 16 columns. I.
- MINING IN THE SETENTRION, MEXICO. By M. R. Lamb. Min. & Sci. Press, vol. 97, p. 782 5 columns I.
- THE LLUVIA DE ORO MINE. By E. A. H. Tays Min. & Sci. Press, vol. 100, p. 59. 3 columns. I.
- Chico, Mexico. Min. & Sci Press, vol. 101, p. 473. 4 columns.
- TOPOGRAPHICAL AND OTHER NOTES ON THE CHOIX-GUADALUPE Y CALVO MINING DISTRICT, MEXICO. By A. W. Warwick. Min. & Sci. Press, vol. 95, p. 686. 6 columns. I.
- MINES OF ZOMELAHUACAN, VERACEUZ, MEXICO. By M. Fishback. E & M. J, vol. 90, p. 1017. 6½ columns I.
- CONDITIONS AT THE PALMILLA MINE, PARRAL, MEXICO By F. W. Smith. E. & M. J., vol. 90, p. 259. 11½ columns. I.
- HINDS CONSOLIDATED MINES, MEXIco. By S. F. Shaw. Min. & Sci. Press, vol. 97, p 598. 3 columns. I.
- CALABACILLAS GOLD MINE, MEXICO. By C. W. Geddes. Min. & Sci. Press, vol. 98, p. 689. 2½ columns. I.
- THE GRANADENA MINES, MEXICO. By S. F. Shaw. Min. & Sci. Press, vol. 97, p. 396. 5½ columns. I.
- Jalisco and Colima, Mexico. By W. A. Scott. Min. & Sci. Press, vol. 98, p 254. 3 columns. I.
- THE MINES OF NORTHWESTERN ALTAR, SONORA, MEXICO. By G. W. Maynard. E & M. J., vol 86, p. 71. 54 columns. I.
- THE ALTAR GOLD PLACER FIELDS OF SONORA, MEXICO. E. & M. J., vol. 90, p. 651. 62 columns. I.

- DRY PLACERS IN NORTHERN SONORA MEXICO. By F. J. H. Merrill Min. & Sci Press, vol. 97, p. 360 2[§] columns. I.
- MINING CEMENT GRAVEL AT ALTAR MEXICO. By A. Coll. M. & M. vol 31, p 229. 4 columns. I.
- RECENT DEVELOPMENTS NEAR HELE-NA, MONTANA. E. & M. J., vol. 90, p 354 1½ columns. Map.
- RADERSBURG DISTRICT, MONTANA.
 Min. & Sci Press, vol. 101, p. 170.
 3 columns. D.
- Notes on the Geology of the Radersburg District, Montana. By D. C. Bard E & M. J, vol 90, p. 599. 1 column
- GOLD DEPOSITS OF THE LITTLE ROCKY MOUNTAINS, MONTANA. By W. H. Emmons. U. S. G. S., Bull. 340, p. 96. 20½ pages. I. 1907.
- THE GRANITE BIMBTALLIC AND CABLE
 MINES, PHILIPSBURG QUADRANGLE,
 MONTANA By W. H. Emmons.
 U. S G S, Bull 315, p. 31. 25
 pages. I 1906
- MINES OF MISSOULA COUNTY, MONTANA By J P. Rowe M & M., vol 31, p 581. 6% columns. I.
- JUDITH BASIN, MONTANA. Min & Sci Press, vol. 101, p. 398. 42 columns. I.
- GEOLOGICAL AND PHYSICAL CONDITIONS OF TONOPAH MINES. By W. P. Jenney Mm. & Sci. Press, vol. 99, p. 685. 3 columns. I.
- THE MINES AND MILLS OF TONOPAR, NEVADA. By G. E. Wolcott. E. & M. J, vol. 87, p. 594. 7 columns. I.
- THE GOLDFIELD TYPE OF ORE OCCUR-RENCE By R T Hill. E. & M. J., vol 86, p. 1096. 11½ columns. I.
- Goldfield, Nevada. By T. A. Rickard. Min. & Sci. Press, vol. 96, p. 559, 6‡ columns, I.; p. 664, 5 columns; p. 738, 6‡ columns, I.; p. 774, 6‡ columns, I.; p. 840, 8 columns, I.; vol. 97, p. 20, 4‡ columns, I.; p. 50, 7‡ columns, I.

- GOLDFIELD AND THE GOLDFIELD DISTRICT OF NEVADA. By J. Tyssowski. E & M. J., vol. 87, p. 1229. 6 columns. I.
- RAWHIDE, NEVADA. By A. Del Mar. E & M. J., vol. 85, p. 853. 6 columns I.
- RAWHIDE, NEVADA By W. F. Boericke. E & M J., vol. 85, p. 565 1 column.
- Notes on Rawhide, Nevada. Min. & Sci Press, vol 96, p. 424. 3½ columns.
- ORE FORMATION IN THE WONDER DISTRICT, NEVADA By E A. Ritter. E. & M J., vol. 87, p. 290 7 columns. I.
- MONTGOMERY-SHOSHONE MINE. By A. H. Martin. Min. & Sci. Press, vol. 100, p. 289. 3 columns. I.
- KIMBERLY, NEVADA. By J. A Carpenter. Min. & Sci. Press, vol. 100, p. 482. 3 columns. I.
- MINING AND MILLING AT RAWHIDE, NEVADA. By G. E. Wolcott. E. & M. J, vol. 87, p. 345. 11 columns. I.
- THE SEVEN TROUGHS MINING DISTRICT. By W. M. Hanck. E. & M. J., vol. 85, p. 644. 4 columns. I.
- SEVEN TROUGHS DISTRICT OF NEVADA. By F. L. Ransome. Min. & Sci. Press, vol. 99, p. 790. 6½ columns.
- MANHATTAN, NEVADA. E. & M. J., vol. 86, p. 1002. 3½ columns. I.
- NOTES ON THE MANHATTAN PLACERS, NYE COUNTY, NEVADA. By C. C. Jones. E. & M. J., vol 88, p. 101. 8 columns. I
- MINES AND PLANTS OF THE PITTSBURG SILVER PEAK. By H. Hanson. Min. & Sci. Press, vol. 98, p. 657. 9² columns. I.
- CAMP ALUNITE, A NEW NEVADA GOLD DISTRICT. By R. T. Hill. E. & M. J., vol. 86, p. 1203. 11 columns. I.
- REMINISCENCES OF GOLDFIELD, NEVADA. By M. R. Lamb. E. & M. J, vol. 87, p. 441. 5 columns.

- Banncock, Nevada. By C. S. Thomas. Min. & Sci. Press, vol. 99, p. 820. 1 column. I.
- ROUND MOUNTAIN, NEVADA. By F. L. Ransome. Min. & Sci. Press, vol 99, p. 568. 2½ columns. I.
- ROUND MOUNTAIN, NEVADA. By F. L. Ransome. U. S. G. S., Bull. 380, p. 44. 4 pages. I 1908.
- ROUND MOUNTAIN, NEVADA. By G. A. Packard. Min. & Sci. Press, vol. 96, p. 807. 4½ columns. I.
- NATIONAL, NEVADA By H. C Cutler. Mm & Sci. Press, vol. 101, p. 606. 3\frac{1}{2} columns. I.
- Some Bullerog Mines. By W. H. Spaulding. E. & M. J., vol. 85, p 159. 5 columns.
- Notes on Operations in Jarbridge Camp, Nevada. By W. W. Fisk. E. & M. J., vol. 90, p. 763. 5½ columns. Map.
- REFORT ON MINING GEOLOGY OF EUREKA DISTRICT, NEVADA. By J. S. Curtis. U. S. G. S., 4th Ann. Rept., pp. 221-251. 1882-83. I.
- THE BRISTOL MINES, NEVADA. By S. L. Goodale. M. & M., vol. 30, p 507. 4 columns. I.
- JARBRIDGE, NEVADA. By W. A. Scott. Min. & Sci. Press, vol. 100, p. 613. 4²/₄ columns. I.
- SYLVANITE DISTRICT, NEW MEXICO. By G. A. Martin. E. & M. J., vol 86, p. 962. 3½ columns.
- SYLVANITE, NEW MEXICO, THE NEW GOLD CAMP. By F. A. Jones. E. & M. J., vol. 86, p. 1101. 9 columns. I.
- OCCURRENCE OF ORE AT SYLVANITE, NEW MEXICO. E. & M. J, vol. 86, p. 1102. 3 columns. I.
- THE BLACE RANGE MINING DISTRICT, NEW MEXICO. By M. Fishback. E & M. J., vol. 89, p. 911. 4 columns. I.
- THE COCHIT MINING DISTRICT, NEW MEXICO. By P. E. Barbour. E. & M. J., vol. 86, p. 173. 6½ columns. I.

- REVIVAL OF MINING IN THE MOGOL-IONS, NEW MEXICO. By E. G. Spilsbury. E & M J, vol. 88, p. 62. 10½ columns. I
- THE LORDSBURG MINING DISTRICT, NEW MEXICO. By E D. Fry. E. & M. J., vol. 90, p 820. 1 column.
- MINES OF THE LORDSBURG DISTRICT, NEW MEXICO By J. L. Wells. E. & M J, vol. 87, p. 890 2½ columns.
- THE MANZANO GROUP OF THE RIO GRANDE VALLEY, NEW MEXICO. By W. T. Lee and G. H. Girty. U. S. G. S, Bull. 389. 141 pages. I. 1909.
- New Mexico Gold Gravels. By J. A. Carruth M. & M., vol. 31, p 117. 5 columns. I.
- GOLD IN THE ADIRONDACKS. E. & M. J, vol 89, p 620. 5 columns.
- GOLD AND SILVER MINING IN NEW ZEALAND. By W. Wilson. Min. & Sci Press, vol. 100, p. 520 4 columns. I.
- GOLD AND SCHEELITE NEAR MACRAES, NEW ZEALAND By P Morgan. Min. & Sci. Press, vol 99, p 33. 2½ columns.
- THE GOLD-BEARING LODES OF BENDIGO AND CARRICK, NEW ZEALAND. By J. Park. Min. & Sci Press, vol. 97, p. 121. 3½ columns I.
- THE ORE DEPOSITS OF WAIHI, NEW ZEALAND By A. M. Finlayson Min. Mag, London, vol. 2, p. 281. 8½ columns. I.
- SCHEELITE AND GOLD NEAR MACRAES, NEW ZEALAND Min. & Sci. Press, vol. 99, p. 33. 2½ columns.
- THE GOLD MINING INDUSTRY IN NICARAGUA. By T. L. Carter. E. & M J, vol. 90, p. 1204. 82 columns. I.
- THE MINING INDUSTRY OF NICARAGUA. By T. L. Carter. M. & M., vol. 31, p. 566. 4½ columns. I.

- Piz-Piz District, Nicaragua. By W A. Connelly. Min. & Sci. Press, vol. 100, p. 350. 4 columns. Map.
- GOLD IN EASTERN NICARAGUA By C. C. Semple Min. & Sci. Press, vol. 99, p. 221. 6½ columns I
- Notes on the Nicaraguan Goldfields. By M. R. Walker E & M. J., vol. 88, p. 263. 3\frac{2}{3} columns I.
- How Can the Gold Mining Industry of Nova Scotia Be Assisted? By E P. Brown J. M. Soc N S., vol. 13, p. 33 13½ pages
- Some of the Causes of the Present Condition of Gold Mining in Nova Scotia. By G W. Stuart. J. M Soc N S, vol. 12, p. 85 19½ pages
- GOLD MEASURES OF TANGIER, NOVA SCOTIA. By G A. Packard Min & Sci Press, vol 95, p 430. 4 columns. I.
- THE OLDHAM STERLING GOLD MINE, Nova Scotia. By C V. Brennan. J. C. M I, vol. 10, p. 426. 16 pages. I
- A PRACTICAL SUGGESTION FOR TEST-ING THE GOLD MINES OF NOVA SCOTIA By F. P ROUNAN. J. M. Soc. N. S, vol. 13, p. 27. 6 pages.
- WICHITA MOUNTAINS, OKLAHOMA By G W. Kneisly. Min & Sci Press, vol 97, p. 873. 1 column. Map
- REPORT ON ORE DEPOSITS OF THE WIGHTA MOUNTAIN, OKLAHOMA. By H. F Bain. U. S. G. S., Professional Paper 31, 97 pages. I. 1904.
- CRACKER CREEK DISTRICT, OREGON. By J T. Padree. Min. & Sci. Press, vol. 100, p. 585. 3½ columns. I
- FAULTING AND VEIN STRUCTURE IN THE CRACKER CREEK GOLD DIS-TRICT, BAKER COUNTY, OREGON. By J. T. Padree. U. S. G. S., Bull. 380, p. 85. 8 pages. I. 1908.
- THE NORTH POLE MINE, BAKER COUNTY, OREGON. By E Melzer. E. & M J, vol. 89, p. 868. 4½ columns. I.

- Gold Mines in Eastern Oregon. Min. & Sci. Press, vol. 101, p. 141. 2½ columns. I
- RYE VALLEY GOLD MINES, OREGON. By A. Mathez Min & Sci. Press, vol. 99, p. 687. 1½ columns. I.
- MINES OF THE RIDDLES QUADRANGLE, OREGON. By J S. Diller and G. F. Kay. U. S. G S, Bull 340, p. 134. 19 pages. I 1907.
- Notes on the Bohemia Mining District, Oregon By D. F. Mac-Donald. U. S. G. S., Bull. 380, p. 80 5 pages. 1908.
- PLACEE GRAVELS OF THE SUMPTER AND GRANITE DISTRICTS, EASTERN OREGON. By J T Pardee. U. S. G. S., Bull 430, p. 59 7 pages I. 1909.
- PLACERS OF WALDO, SOUTH OREGON. By J M. Nicol. Min & Sci Press, vol. 99, p. 122. 2½ columns I
- BEDDED GOLD QUARTZ VEINS NEAR POTO, PERU. By E. C. Thurston. E. & M J, vol. 90, p. 597 3\frac{1}{3} columns. I.
- PERUVIAN PLACER MINES Mm & Sci. Press, vol. 101, p. 741. 7 column.
- San Antonio De Poto Hydraulic Mine, Peru. By W E G Firebrace Min. & Sci Press, vol. 97, p. 780. 4 columns. I.
- ANDEAN PLACERS, PERU AND BOLIVIA.

 Min & Sci. Press, vol 99, p 61.
 1 column.
- THE PHILIPPINE GOLD MINES. By M Woolley. M. & M, vol. 31, p. 464. 4 columns. I.
- Gold in the Philippines. By H. G. Ferguson E & M. J., vol 88, p. 1165. 5 columns. I.
- Aroboy District, Masbate, Philippine Islands Min. & Sci Press, vol. 100, p. 388. 3 columns.
- PARACALE AND MAMBULAO DISTRICTS. By W. D. Smith. Min. & Sci. Press, vol. 100, p. 453. 4 columns.
- RUSSIAN FAR EASTERN GOLD FIELD. M. & M., vol. 31, p. 447. 2 columns.

- GOLD MINING IN SIBERIA Min & Sci. Press, vol 20, p. 394. 13 columns GOLD AND OTHER MINERALS OF EAST-
- GOLD AND OTHER MINERALS OF EAST-ERN SIBERIA By S F. G. White E & M J, vol. 87, p 1034. 4½ columns.
- MINING IN SIBERIA. By C. W. Purington. Min. & Sci. Press, vol. 98, p 251. 3 columns.
- KOLCHAN PLACER OF THE ARSK GOLD-FIELDS, Ltd. By C. W. Purington. E & M. J., vol 90, p. 1202 5½ columns.
- GOLD AND SILVER IN TENNESSEE. Min Mag, vol. 8, p. 237. 4½ pages.
- GOLD AND SILVER IN TURKEY Min. & Sci. Press, vol. 98, p 823. 1 column
- RECONNAISSANCE OF SOME GOLD AND TIN DEPOSITS OF THE SOUTHERN APPALACHIANS. By L. C Graton. U. S G S, Bull 293. 134 pages. I 1906
- EXAMINATIONS AND EXPLORATIONS ON THE GOLD-BEARING BELTS OF THE ATLANTIC STATES. Min. Mag., vol 2, p. 378, 10½ pages, I.; vol. 3, p. 161, 7½ pages.
- THE SOUTH UTAH MINE AND MILL. By L. Palmer. M. & M., vol 31, p 592. 8½ columns. I.
- MINING IN THE TINTIC DISTRICT OF UTAH. By L. A. Palmer. M & M, vol. 31, p. 553 8 columns. I.
- MINES AND MILL OF THE CONSOLIDATED MERCUR COMPANY. By R. H. Allen. E & M. J., vol. 89, p. 1273. 13½ columns. I.
- MINES IN REPUBLIC DISTRICT, WASH-INGTON. By W. A. Scott. Min. & Sci Press, vol. 101, p 200. 4 columns. I.
- GOLD-BEARING RIVER SANDS OF NORTHEASTERN WASHINGTON By A. J. Colher. U. S. G. S., Bull. 315, p. 56. 15 pages. 1906.
- CUBAN GOLD MINES. By E. B. Wilson. M. & M., vol. 31, p. 240. 1 column.

- Cuban Gold Mining. By E. W. Dennison. Min & Sci. Press, vol. 97, p. 500. ½ column.
- GOLD MINING IN PORTO RICO. By W. B. McKinlay. Min & Sci. Press, vol 97, p. 96, 5½ columns; p. 126, 7½ columns, I
- GOLD DEVELOPMENTS IN CENTRAL UINTA COUNTY, WYOMING, AND AT OTHER POINTS ON SNAKE RIVER BY A. R. Schultz. U. S. G. S., Bull 315, p. 71. 18 pages. I 1906.
- WIND RIVER PLACERS, WYOMING. By J. H. Hastings. Min. & Sci Press, vol. 98, p. 864. 1 column.
- See also Theory of Ore Deposits and Geology of Fuels and Ores.

Occurrence of Graphite

- GRAPHITE: Its Occurrence and Use. M. & M., vol. 30, p. 394. 3² columns. I.
- Canadian Graphite. By H P H. Brumell. J. C. M I, vol. 10, p 83 20 pages
- Modes of Occurrence of Canadian Graphite By H. P. H. Brumell. J. C. M. I, vol 11, p. 236. 14½ pages.
- CANADIAN GRAPHITE By H. M. Lamb. E. & M. J., vol 85, p. 360 5½ columns.
- GRAPHITE DEFOSITS NEAR CARTERS-VILLE, GEORGIA. By C. W. Hayes and W. C. Phalen. U S. G. S, Bull. 340, p. 463. 2½ pages. 1907.
- Graphite in Maine By G. O Smith. U.S G.S., Bull. 285, p. 480. 4 pages. 1905.
- THE GRAPHITE MINES OF SANTA MARIA, MEXICO. By J. C. Mills. M. & M., vol 29, p. 98. 2½ columns. I.
- THE FLAKE GRAPHITE INDUSTRY IN THE UNITED STATES. By F. D. Chester. E. & M. J., vol. 88, p. 785. 2 columns.
- SUPPOSED DEPOSITS OF GRAPHITE NEAR BRIGHAM, UTAH. By H. S.

- Gale. U. S G. S., Bull 430, p. 639. 2 pages 1909.
- GRAPHITE IN THE HAYSTACK HILLS, LARAMIE COUNTY, WYOMING. By S. H. Ball U S. G. S., Bull. 315, p. 426. 2 pages. 1906.
- See also DRY CONCENTRATION.

Auriferous Gravels

- BLACK SANDS. By A. R. Townsend. E. & M. J., vol. 85, p. 307. 4½ columns.
- Gravel Mining in Tasmania Min. Mag., London, vol. 3, p. 383 13 columns. I
- THE PACIFIC COAST BEACH SANDS. By C. Bartlett. M. & M, vol 30, p. 375. 3½ columns.
- USEFUL MINERALS IN BLACK SANDS OF PACIFIC COAST. By D. T. Day and R. H. Richards. U. S. G. S., Mineral Resources, 1905. 73 pages.
- DRY PLACERS IN NORTHERN SONORA, MEXICO. Min & Sci. Press, vol. 97, p. 380. 2²/₂ columns. I
- See also Occurrence of Gold.

Occurrence of Gypsum

- GYPSUM MINING. By W. J. Jones. M. & M., vol. 29, p. 490. 1½ columns. I.
- THE GYPSUM DEPOSITS OF THE PALEN MOUNTAINS, RIVERSIDE COUNTY, CALIFORNIA. By E. C. Harder. U. S. G. S., Bull. 430, p. 407. 10 pages. I. 1909.
- GYPSUM DEPOSITS NEAR CANE SPRINGS, KERN COUNTY, CALIFOR-NIA. By F. L. Hess. U. S. G S., Bull. 430, p. 417. 2 pages. 1909.
- A RECONNAISSANCE OF THE GYPSUM DEPOSITS OF CALIFORNIA. By F. L. Hess. U. S. G. S., Bull. 413. 37 pages. I. 1910.
- GYPSUM OF THE UNCOMPANGRE REGION, COLORADO. By C. E. Siebenthal. U. S. G. S., Bull. 285, p. 401. 4 pages. I. 1905.

- GYPSUM DEPOSITS OF MONTANA. By J P Rowe. E. & M J, vol. 85, p. 1243. 3 columns. I.
- GYPSUM IN NORTHWESTERN NEW MEXICO. By M. K. Shaler. U S. G. S., Bull. 315, p 260. 5 pages. I 1906.
- GYPSUM ON CAPE BRETON ISLAND, NOVA SCOTIA. By J Tyssowski. E & M. J, vol. 88, p. 569. 4 columns. Map.
- OKLAHOMA GYPSUM DEPOSITS. E. & M. J., vol 85, p. 315. ½ column.
- SALT AND GYPSUM OF THE PRESTON VALLEY OF THE HOLSTON RIVER, VIRGINIA. By H. D. Rogers. Min. Mag., vol. 4, p 28. 7 pages.
- GYPSUM DEPOSITS OF THE LARAMIE DISTRICT, WYOMING. By C. E. Siebenthal. U. S. G. S., Bull. 285, p. 404. 2 pages. 1905.

Occurrence of Iron Ores

- THE SUPPLY OF IRON By J F. Kemp. Min Mag., London, vol. 3, p 363. 7 columns.
- THE SUPPLIES AND RESERVES OF IRON ORES. By J. Birkinbine. J. C. M. I., vol. 10, p. 134. 14½ pages.
- Magnetic Iron Ore: Magnetite, Magnetic Oxide of Iron, and Lodestone. Min. Mag., vol. 4, p. 121. 14 pages.
- THE BLACK BAND, OR MUSHET IRON-STONE. Min. Mag., vol. 4, p. 19. 9½ pages.
- ON THE OCCURRENCE OF ORES OF IRON IN THE AZOIC SYSTEM. By J. D. Whitney. Min. Mag, vol. 7, p. 67. 4 pages.
- Franklinite Iron Ores: Their Uses and Quantity. Min. Mag., vol. 10, p. 105. 4 pages.
- AGGLOMERATION OF MANGANIFEROUS LIMONITE ORE. By F. Witte. E. & M. J., vol. 90, p. 216. 4½ columns. I.
- Iron in the Belgian Congo. T. A. I. M. E., vol. 41, p. 210. 4 pages.

- IRON ORES, FUELS AND FLUXES OF THE BIRMINGHAM DISTRICT, ALABAMA. By E F. Burchard and C. Butts. U. S G S, Bull. 400. 204 pages. I. 1910
- IRON OPERATIONS OF THE BIRMING-HAM DISTRICT By E Higgins. E. & M. J., vol. 86, p. 1043. 18½ columns. I
- IRON OPERATIONS IN NORTHEASTERN ALABAMA. By E Higgins E. & M. J., vol 86, p. 1083. 12 columns. I.
- THE IRON ORE INDUSTRY IN ALABAMA. By E. A. Smith. E. & M. J., vol. 85, p. 1159. 4 columns.
- AN ESTIMATE ON THE TONNAGE OF AVAILABLE CLINTON IRON ORE IN THE BIRMINGHAM DISTRICT, ALA-BAMA. By E. F. Burchard. U. S. G. S, Bull. 340, p. 308. 10 pages. I. 1907.
- THE CLINTON OR RED ORES OF THE BIRMINGHAM DISTRICT, ALABAMA. By E. F. Burchard. U. S. G. S., Bull. 315, p. 130. 21½ pages. 1908.
- THE BROWN IRON ORES OF THE RUSSELLVILLE DISTRICT, ALABAMA. By E. F Burchard. U. S. G S., Bull. 315, p. 152. 7 pages 1906.
- THE GRAY IRON ORES OF TALLADEGA COUNTY, ALABAMA. By P. S. Smith. U. S. G. S, Bull. 315, p. 161. 23\(\frac{1}{2}\) pages. 1906.
- THE CLINTON IRON-ORE DEPOSITS OF ALABAMA. By E. F. Burchard. T. A I. M. E., vol. 40, p. 75. 59 pages. I.
- The Occurrence of Iron Ore Near Haines, Southeastern Alaska. By A. Knopf. U. S. G. S., Bull. 442, p. 144. 3 pages. 1909.
- Two Important Iron Ore Deposits of Australia. By J. B. Wilson. E. & M. J., vol 89, p. 724. 162 columns. I.
- IRON ORE DEFOSITS OF BRAZIL. By O. A. Derby. E. & M. J, vol. 88, p. 1258. 3\frac{2}{3} columns.

- Brazil's Iron-Ore Deposits. By G. E. Anderson M & M., vol 31, p. 7. 5 columns.
- MAGNETITE DEPOSITS OT TEXADA AND VANCOUVER ISLANDS. By E. Lindeman. J C M I, vol 13, p. 107. 15½ pages Map.
- THE EMMA MINE BOUNDARY DISTRICT,
 BRITISH COLUMBIA By F. Keffer.
 J. C. M I, vol 10, p. 188 6½
 pages I. Map.
- OCCURRENCE OF MAGNETITE IN THE EMMA MINE, BRITISH COLUMBIA J C M. I, vol. 10, p. 188. 6 pages I.
- AN IRON DEPOSIT IN THE CALIFORNIA DESERT REGION By C. C Jones E. & M. J., vol. 87, p. 785. 10 columns. I
- IRON ORES OF CALIFORNIA. By H. C. Harder. Min. & Sci. Press, vol 101, p. 79. 3½ columns Map
- OCCURRENCE OF AN IRON ORE DE-POSIT IN THE CALIFORNIA DESERT REGION. E & M. J., vol. 87, p. 785. 10 columns. I
- Some Iron Ores of Western and Central California. By E C. Harder. U. S. G S., Bull 430, p 219. 8½ pages. 1909.
- THE IRON AGE IRON-ORE DEPOSIT, NEAR DALE, SAN BERNARDINO COUNTY, CALIFORNIA. By E. C. Harder and J. L. Rich U. S. G. S., Bull. 430, p. 228. 12 pages I 1909.
- IRON ORES OF THE SOUTHWEST. By C. C. Jones M. & M, vol 31, p. 574. 4½ columns
- CHROME ORE IN CALIFORNIA. By C. G. Yale. E & M. J., vol 85, p. 101 ? column.
- Some Chromite Deposits in Western and Central California. By E. C. Harder. U. S. G. S., Bull. 430, p. 167. 16½ pages. I. 1909.
- THE IRON ORES OF ONTARIO. By A. B. Willmott. J. C. M I., vol. 11, p. 106. 18 pages.

- THE IRON ORES OF CANADA By C. K. Leith J C M I, vol 11, p. 91. 16 pages.
- OCCURRENCE OF IRON ORES AT BRUCE MINES, ONTARIO. J C. M I, vol. 10, p 158. 2 pages. D
- IRON MINING POSSIBILITIES IN THE PROVINCE OF QUEBEC By F. Cirkel J C M I., vol 10, p 108. 10 pages. D.
- IRON RANGES OF NORTHERN AND NORTHWESTERN ONTARIO E. & M J, vol 89, p. 360 7 columns
- THE MOOSE MOUNTAIN IRON RANGE, WITH SPECIAL REFERENCE TO THE PROPERTIES OF MOOSE MOUNTAIN, LIMITED. By N. L Leach J. C. M. I, vol 11, p 147. 4 pages
- THE BRUCE MINES, ONTARIO, 1846-1906. By H. J. Carnegie Williams. J C. M I, vol 10, p 147. 22 pages. I
- THE HELEN MINE, MICHIPICOTEN, ONTARIO Iron Ore By R W. Seelye. J. C M I., vol. 13, p. 121. 14½ pages. I
- CHROME IRON MINING AND MILLING IN CANADA. By H. F. Strangways. E. & M. J., vol. 85, p. 595. 7 columns. I.
- CHROME ORE IN CANADA. By P Thompson. E. & M J., vol. 88, p. 726. 2½ columns.
- THE MOOSE MOUNTAIN IRON RANGE, CANADA. By J J. Bell E & M. J, vol 85, p 805. 2½ columns I.
- THE IRON RANGES EAST OF LAKE NIPIGON, ONTARIO By A. P. Coleman and E S. Moore. E. & M. J, vol. 83, p 445. 2 columns.
- Canadian Iron Ore Industry. M. & M., vol 31, p. 455. 6½ columns. I.
- MINING IRON UNDER THE SEA. By H. W. Buker. M. & M., vol. 31, p. 569. 7 columns. I.
- IRON, STEEL AND FUEL IN CHINA. By W. D. B. Dodson Min. & Sci. Press, vol. 97, p 494. 2½ columns.

- THE TAYBH IRON MINES, CHINA BY A. J. Seltzer Mm. & Sci Press, vol. 100, p. 546. 5 columns I
- THE TAYLOR PEAK AND WHITEPINE IRON ORE DEPOSITS, COLORADO BY E. C. Harder. U. S. G. S., Bull 380, p. 188. 10½ pages. I. 1908.
- Taylor Peak Iron Deposits By E. C Harder. Min & Sci Press, vol. 100, p 615 5 columns I
- THE HEMATITE MINES OF CUMBER-LAND, ENGLAND. By L. W Mayer. E & M J, vol 86, p. 358 18½ columns. I
- IRON ORES NEAR ELLIJAY, GEORGIA. By W C. Phalen. U S G. S., Bull. 340, p 330. 5 pages. 1907.
- REVIEW OF FOSSIL IRON ORE DE-POSITS OF GEORGIA. By S. M Ball. E & M. J., vol 88, p 200. 13½ columns. I.
- Georgia Brown Iron Ore Washeries By E. F. McCrossin M & M, vol 31, p. 294. 22 columns. I
- THE LORRAINE DEPOSITS OF OÖLITIC IRON ORE, GERMANY. By Tony Callot. E. & M J., vol 87, p 1221. 16 columns. I.
- THE ILSEDE HÜTTE IRON MINES AT PEINE, GERMANY. By L. W Mayer. T A. I M. E., vol 39, p 351 6½ pages. I
- IRON RESOURCES OF THE REPUBLIC OF MEXICO. By E. Ordoñez E. & M. J., vol. 90, p. 665. 64 columns.
- Iron Explorations in Oaxaca, Mexico. E. & M. J., vol. 90, p. 668. 10 columns. I.
- EXPLORATION OF CERTAIN IRON ORE AND COAL DEPOSITS IN THE STATE OF OAXACA, MEXICO. By J. L. W. Birkinbine. T. A. I. M. E., vol. 41, p. 166 23 pages. I.
- Notes from the Lake Superior Iron Ranges. By D E. Woodbridge. E. & M. J., vol 89, p 863. 3½ columns.
- THE GOGEBIC RANGE. T L. S. M. I, vol. 15, p. 10. 16 pages.

- THE MARQUETTE IRON RANGE. By G. A Newett. T L S M. I., vol 14, p 19 12 pages Map.
- DEVELOPMENT IN THE MARQUETTE RANGE IRON ORE MINES M. & M., vol 30, p. 195 6 columns I.
- IRON MINING IN MINNESOTA By E. K. Soper. Mm & Sci Press, vol 101, p 767. 5½ columns I
- IRON MINING AT COLORAINE, MINNE-SOTA By A. H. Fay E & M. J., vol 88, p. 770. 3 columns. I
- IRON ORES NEAR DAYTON, NEVADA.

 By E. C Harder U S G S, Bull.

 430, p 240 6 pages I 1909
- WHITEPINE IRON-ORE DEPOSITS. By E. C. Harder Min & Sci. Press, vol. 100, p. 387. 3 columns. I.
- IRON ORES NEAR DAYTON, NEVADA.

 By E C Harder Min & Sci Press,
 vol. 101, p 212. 2 columns Map.
- AMARILLA IRON AND PHOSPHATE DE-POSITS, NEVADA By O H. Hershey. Min. & Sci Press, vol. 97, p. 535. 3½ columns.
- Pyrite Mining in New Hampshire. By A. H. Fay. E & M. J., vol. 88, p. 463 2 columns I
- IRON ORE IN NEW JERSEY. By H. W. Kummel. E & M J, vol. 85, p. 1193 2 columns
- IRON ORE OF NEW JERSEY. Geological Occurrence, Properties and Metallurgy. By W Kitchell Min. Mag., vol. 8, p. 332, 16 pages; p. 434. 4 pages.
- THE HANOVER IRON ORE DEPOSITS, NEW MEXICO By S. Paige. U. S. G. S., Bull. 380, p 199. 16 pages. I. 1908.
- HANOVER IRON-ORE DEPOSITS, NEW MEXICO. By S. Paige. Min. & Sci. Press, vol. 100, p. 285. 3\frac{2}{3} columns I.
- THE FOREST OF DEAN IRON MINE, NEW YORK By G. C. Stoltz E. & M. J, vol 85, p. 1091. 5½ columns I.

- THE MAGNETITE BELTS OF PUTNAM COUNTY, NEW YORK. By C. A. Stewart. Sch Mines Quart., vol. 29, p. 283. 12 pages. I.
- THE IRON DEPOSITS OF NEW YORK STATE. By J. D Whitney. Min. Mag, vol. 7, p. 255. 3½ pages.
- THE CLINTON IRON ORE DEPOSITS IN NEW YORK STATE By D. H. Newland. T. A. I. M E, vol. 40, p. 165 19½ pages I
- GEOLOGY OF THE IRON ORE DEPOSIT, ORANGE COUNTY, NEW YORK E. & M. J., vol. 85, p. 1091. 2 columns. I.
- NEW BRUNSWICK AND THE ACADIAN IRON MINES. Min. Mag., vol. 6, p. 117 8 pages.
- Inon Ores of Nova Scotta. By P. Thompson. E. & M. J., vol. 88, p. 358 1²/₄ columns.
- A New Iron Ore Field in the Province of New Brunswick By J. E Hardman. J. C. M. I., vol 11, p. 156 9 pages
- THE DISCOVERY OF IRON ORE IN THE NEW BRUNSWICK PROVINCE J. C. M. I., vol. 11, p. 159. 6 pages.
- MAGNETITE DEPOSITS OF THE CORNWALL TYPE IN PENNSYLVANIA. By A. C. Spencer. U. S. G. S., Bull. 359. 102 pages. I. 1908.
- MAGNETITE DEPOSITS OF THE CORNWALL TYPE IN BERKS AND LEBANON COUNTIES, PENNSYLVANIA. By A C Spencer. U. S. G. S., Bull. 315, p. 185. 4½ pages. 1906.
- THE JONES IRON MINE, DILLSBURG, PENNSYLVANIA. By A. C. Spencer U. S. G. S., Bull. 430, p. 247 3 pages. 1909.
- THE CLINTON IRON ORE DEPOSITS IN THE STONE VALLEY, HUNTINGDON COUNTY, PENNSYLVANIA. By J. J. Rutledge. T. A. I. M. E, vol. 40 p. 134. 30 pages. I.
- DEPOSITS OF BROWN IRON ORE NEAR DILLSBURG, YORK COUNTY, PENN-SYLVANIA. By E. C. Harder. U S. G. S., Bull. 430, p. 250. 5½ pages. 1909.

- PRODUCTION OF IRON ORDER NO SPAIN.

 By H. A. McEnde. I . I. I., vol.

 31, p. 577. 65 to -limes. I.
- The Geological Hris. and of the Scandinavan Ir on Obser By H. Sjogren. T. A. H. M. PR, vol. 38, p. 766. 69 pages. I. .
- Tonnage Estimates of "Chlindon Iron Ore in the Chatriannoon Region of Tennessee, Godernam and Alabama By E. F. Blither et. U S. G. S., Bull. 350, pp. 1-0. 100 pages. 1908.
- IRON OFERAMONE IN THE CHATTA-NOOGA IDIS-TH OF BY FER HEIgens. E. & M. J., v-ol. 81, p. 1 1 15 colurons. I
- PRELIMINARY REPORT ON PRE-CAMBRIAN GROUGHAND LOON ORES OF LIANO COUNTY, THILL By S. Paige. U S G S, Bull 430, p. 256 12 pages 11999.
- IRON IN TUREST . IMm s.t : & I. Press, vol. 98, pp 8523 1 alv.umma.
- Geologico-Geografica Markerbution of the Reon Organ of the Easters U. 8. By J. C. Shoot T. A. I M. E., vol 1: 2, po. 18 SA
- IRON ORE SWOP-LY OF MENTUNCTED STATES. B-yC=.WT.HL.speed Mun. & Sci. Press, vol. 98, po. 7278. 3 columns.
- Hade of the United fraction. E. & M. J., vol. 90, p. 2004. 24 columns. IMago.
- Leon Orbes E ast of the Miss session River By J. B-thinding u. U. S. G. S., Mineral Resource, 18-36, vol. 8 65 pages.
- The Iron Orms of the Iron Septings
 District, Southerner Than By C.
 K. Leith. U. S. G. S., hill 338.
 102 pages. I. 19 -08.
- THE IRON ORBES OF THE ATTENDATION REGION IN VIRGINIAA. I By E. C. Harder U.S. G. S., Burd. 380, p. 215. 40 pages. I. III888.
- THE PRIDEVALES HENCE O CHARGENY'S MINES, VINGINIA. By W. AI ROGERS.

- Min. Mag, vol 3, p 489, 8½ pages; vol. 5, p. 397; 14 pages. I Map
- IRON ORES OF SANTIAGO, CUBA. By E B Wilson. M. & M, vol 31, p. 245. 8\frac{1}{3} columns. I.
- THE RESIDUAL BROWN IRON ORES OF CUBA. By C M Weld. T. A. I. M. E., vol. 40, p. 299. 13½ pages. I.
- THREE DEPOSITS OF IRON ORE IN CUBA. By A C Spencer. U S. G S, Bull. 340, p 318 12 pages. I. 1907.
- THE IRON ORES OF WISCONSIN. By E Daniels. Min. Mag, vol 10, p 13. 12 pages.
- THE HARTVILLE IRON-ORE RANGE, WYOMING. By S. H. Ball. U. S. G S, Bull. 315, p. 190. 15½ pages. I. 1906.
- THANIFEROUS IRON ORE OF IRON MOUNTAIN, WYOMING By S. H. Ball U. S. G. S., Bull 315, p. 206. 7 pages. 1906.
- See also THE IRON TRADE.
- See also Theory of Ore Deposits and Geology of Fuels and Ores.

Occurrence of Lead and Zinc Ores

- LEAD INDUSTRY. By C Kirchoff, Jr. U. S G. S, Mineral Resources 1883 and 1884, vol. 14.
- St. EUGENE MINE AND MILL, EAST KOOTENAY, BRITISH COLUMBIA By E. Jacobs. E. & M. J., vol. 89, p. 420. 7 columns. I
- LEAD MINES IN SHAN STATES, CHINA. E. & M. J., vol. 88, p. 550 16½ columns. I.
- OCCURRENCE OF LEAD ORE AT LEAD-VILLE. E. & M. J., vol. 89, p. 263. 4 columns. I.
- THE LEADVILLE DOWNTOWN DISTRICT.

 Min & Sci. Press, vol. 95, p. 58.

 1 column.
- THE MONTEZUMA MINING DISTRICT, COLORADO By E. A. Ritter E. & M. J., vol. 85, p. 241 9½ columns. I.
- THE GREENSIDE LEAD MINES, CUMBERLAND, ENGLAND. By E. T.

- Borlase E & M. J., vol. 85, p. 297. 10 columns. I
- LEAD MINING AT MECHERNICH, PRUSSIA By L. W Mayer. E. & M. J, vol. 86, p. 169 11½ columns. I.
- THE WILLISTON LEAD AND COPPER MINE, NORTHAMPTON DISTRICT, MASSACHUSETTS By C. K Richardson. Min Mag, vol 2, p 395, 2 pages; p. 634, 2 pages.
- THE CABRILLAS LEAD MINES OF COA-HUILA, MEXICO By S J. Lewis. E & M. J., vol 89, p. 1071. 8 columns. I.
- THE GRANADENA MINES, MEXICO.
 By S. F Shaw Min. & Sci. Press,
 vol 97, p. 396. 5½ columns. I
- MINING AND TRANSPORTATION AT SANTA EULALIA. By C. T. Rice. E. & M. J., vol. 86, p 33 9½ columns. I.
- Ores and Mines of Santa Eulalia, Mexico. By C T Rice. E. & M. J., vol. 85, p. 1283. 9 columns. I.
- THE ORE DEPOSITS OF SANTA EULALIA, MEXICO By C T. Rice E. & M. J., vol. 85, p. 1229. 10 columns. I.
- THE CUCHILLO PARADO DISTRICT. By R. H. Burrows Min. & Sci. Press, vol. 95, p. 408. 1½ columns. I
- LEAD MINING IN THE JOPLIN DISTRICT. By L. L. Wittich. M. & M, vol 30, p. 743. 4½ columns. I.
- OPERATIONS OF THE DOE RUN LEAD COMPANY. By A. H. Fay. E. & M. J., vol. 89, p. 610. 9 columns. I.
- THE YELLOW PINE MINING DISTRICT OF NEVADA. By N. B. Gregory. E. & M. J., vol. 90, p. 1308. 5½ columns.
- THE SHELBURNE LEAD MINING COM-PANY, NEW HAMPSHIES. By J. T. Hodge. Min. Mag., vol. 1, p. 27, 7½ pages, I.; vol. 3, p. 481, 10 pages.
- Luna County, New Mexico. By E. McCormick. Min. & Sci. Press, vol. 98, p. 328. 17 columns.
- LEAD IN TURKEY. Min. & Sci Press, vol. 98, p. 823. 1 column.

- THE GEOLOGY OF THE UPPER MISSISSIPPI LEAD REGION. By J. V. Phillips. Min. Mag., vol. 2, p. 129. 9½ pages. I.
- THE LEAD VEINS OF WISCONSIN. Min. Mag, vol. 2, p 493. 11½ pages.
- ZINC AND LEAD IN ARKANSAS. By L. L. Wittich. M & M, vol. 31, p. 10. 3 columns. Map.
- THE SILVER-LEAD-ZINC MINES AT BROKEN HILL, NEW SOUTH WALES. By G W Williams E & M. J, vol. 86, p. 793 16½ columns I.
- REMINISCENCES OF BROKEN HILL. By J Warren. T. Au. I M. E., vol. 9, p. 1. 23 pages. I.
- RECENT DEVELOPMENTS ON IRON HILL, LEADVILLE. By G. O. Argall E & M. J., vol 89, p. 261. 16 columns. I.
- Lead and Zinc Mining in Iowa. E. & M J., vol 86, p 805. 1 column
- OZARK LEAD- AND ZINC-DEFOSITS: Their Genesis, Localization, and Migration Discussion of Paper of C. R. Keyes, vol 40, p. 184.
 - T. A I. M. E, vol. 40, p 856. $5\frac{1}{2}$ pages.
- LEAD AND ZINC ORES IN MISSOURI. By J. R. Finlay. E & M. J., vol. 86, p. 605. 15% columns. I.
- THE ORE DEPOSITS OF THE JOPLIN REGION, MISSOURI. By F. L Clerc. T. A. I. M. E., vol 38, p. 320. 23 pages.
- ZINC AND LEAD DEPOSITS OF SOUTH-WESTERN MISSOURI. By F. L. Garrison. Min & Sci. Press, vol. 96, p. 291, 7 columns, I, p. 325, 72 columns, I.
- JOPLIN DISTRICT ZINC AND LEAD ORES M. & M., vol. 31, p. 327. 3 columns.
- JOPLIN DISTRICT ZINC AND LEAD ORES. By L. L. Wittich. M. & M., vol. 31, p. 31. 1½ columns.
- Tres Hermanas Mining District, New Mexico. By W. Lindgren. Min. & Sci. Press, vol. 100, p. 491. 2 columns.

- THE TRES HERMANAS MINING DIS-TRICT, NEW MEXICO By W. Lidgren U. S G S., Bull 380, p 123. 5 pages. 1908
- MINERAL RESOURCES OF NORTHEAST-ERN OKLAHOMA. By C E Siebenthal. U. S G S, Bull. 340, p 187. 42 pages. I. 1907.
- OKLAHOMA'S NEW ZINC-LEAD DISTRICT. E. & M J, vol 87, p 496. 21 columns.
- MIAMI LEAD AND ZING DISTRICT IN OKLAHOMA By O Ruhl E. & M. J., vol 86, p. 910 8 columns. I
- LEAD AND ZINC ORES OF VIRGINIA By M M Caldwell M. & M, vol 30, p 269 2 columns.
- THE ZINC DEPOSITS OF MOHAVE COUNTY, ARIZONA E & M J, vol 89, p 775 2½ columns
- THE ZINC ORES OF LA MALLIEUE (BELGIUM). By H De Rauw T I M. E, vol 37, p 651 1½ pages.
- LEADVILLE, COLORADO, ZINC DE-POSITS By H E. Burton M & M, vol. 31, p. 436 2 columns.
- ZINC MINING IN CHIHUAHUA, MEXICO. By W. H. Seamon. E & M J, vol 90, p. 679. 1½ columns
- DEL CARMEN ZINC MINE, MEXICO. M. & M, vol 31, p. 437. 4½ columns. I.
- Boquillas Zinc Deposits, Mexico. By C. Mour M. & M, vol. 31, p. 479. 12 columns. I.
- THE MINING OF OXIDIZED ZINC ORES. By L L. Wittich. M & M, vol 30, p 276. 2 columns I
- MIGRATIONS OF THE JOPLIN ZINC BELT By C. R. Keyes. E & M. J., vol 87, p. 1049. 2½ columns. I.
- ZINC MINING IN BUTTE, MONTANA. E. & M. J., vol. 87, p 912. 1 column.
- ZINC MINING AT YELLOW PINE, NEVADA. By N. B. Gregory. M. & M, vol 31, p. 340. 2½ columns. I.

- THE TYNTICHA ZINC MINE, SIBERIA By C. W Purington Min & Sci. Press, vol. 99, p 200. 1½ columns.
- THE EAST TENNESSEE ZINC MINING DISTRICT By S. W. Osgood E & M J, vol 87, p 401. 9½ columns I.
- CHARACTER OF ORE IN THE EAST TENNESSEE ZINC DISTRICT. E & M J, vol. 87, p. 402 ½ column
- GEOGRAPHIC DISTRIBUTION OF LEAD AND ZINC DEPOSITS OF THE MIS-SISSIPPI VALLEY By C R Keyes. E & M. J., vol. 86, p 1004 3 columns.
- Iron and Zinc in Southwestern Virginia. E & M. J., vol. 86, p. 908 3 columns. I
- THE EMPIRE-ENTERPRISE ZINC MINES, WISCONSIN. By H C. George. E & M. J, vol. 89, p. 1280. 6½ columns. I.
- See also THEORY OF ORE DEPOSITS and GEOLOGY OF FUELS AND ORES

See also Theory of ORE DEPOSITS.

See also Miscellaneous Production

Occurrence of Manganese

- MANGANESE ORE IN UNUSUAL FORM. By W P Blake T. A I M E, vol 41, p. 647. 2½ pages
- USES OF MANGANESE. By E. C. Harder. U.S.G.S, Bull. 427. 208 pages.

See also United States.

- MANGANESE DEPOSITS OF MORRO DA MINA, BRAZIL By J. Lustosa and J C. Branner. E & M. J, vol. 86, p. 1196. 5²/₃ columns. I.
- MAGNESITE DEPOSITS OF CALIFORNIA.

 By F. L. Hess U. S G. S, Bull.

 355. 67 pages I 1908.
- Magnesite in California. E. & M. J, vol 87, p. 292. ½ column.
- Some Magnesite Deposits of California By F. L. Hess. U S. G. S., Bull. 285, p. 385. 8 pages. 1905.

- A MANGANESE DEPOSIT IN SOUTHERN INDIA By R O. Ahles. T. I M. & M, vol 18, p. 133. 20 pages. I.
- MANGANESE DEPOSITS IN SOUTHERN INDIA E & M J, vol. 87, p 955 23 columns
- MANGANESE MINING IN THE CAU-CASUS By A. Muls Min Mag, London, vol 2, p. 439. 4 columns. I.
- MANGANESE DEPOSITS OF THE UNITED STATES. By E C. Harder. U. S. G. S., Bull. 380, p 255. 22 pages. I. 1908
- MANGANESE DEPOSITS OF THE UNITED STATES, WITH SECTIONS ON FOREIGN DEPOSITS, CHEMISTRY AND USES. By E C. Harder U S G. S, Bull. 427 208 pages I

See also MISCELLANEOUS DISTRICTS

- MANGANESE DEPOSITS OF VIRGINIA. By S M. Ball E & M. J., vol. 87, p. 1056 1½ columns
- MANGANESE DEPOSITS OF THE BLUE RIDGE, VIRGINIA. By L G Lockey. E. & M. J, vol. 89, p. 867. 1 column.

See also THEORY OF ORE DEPOSITS.

Miscellaneous Materials

- Nonmetalliferous Mineral Resources of Southeastern Alaska. By C. W. Wright. U. S. G. S., Bull. 314, p. 73. 8 pages. 1906
- METALLIC SULPHIDES IN ALLUVIAL GOLD DEPOSITS. By F L. Garrison. Min. & Sci. Press, vol. 101, p. 812. 2 columns.
- RADIUM IN AUSTRALIA. By J. Plummer Min. & Sci. Press, vol. 100, p. 292 13 columns.
- MARINE FIBER DEPOSITS OF SOUTH AUSTRALIA. By H. L. Jene E. & M. J., vol 88, p. 965. 2 columns I.
- SODIUM SULPHATE IN SAN LUIS OBISPO COUNTY, CALIFORNIA. By R. Arnold and H. R. Johnson. Min & Sci Press, vol 99, p. 855. 1½ columns.

- SODIUM SULPHATE IN SODA LAKE, CARRISO PLAIN, SAN LUIS OBISPO COUNTY, CALIFORNIA. By R. Arnold and H. R. Johnson. U. S. G S., Bull. 380, p. 369 3 pages. 1908
- Tripoli Deposits of California.

 Min. & Sci Press, vol. 95, p 54.

 † column.
- TRIPOLI DEPOSITS NEAR SENECA, MISSOURI. By C. E. Siebenthal and R. D. Mesler. U. S. G. S., Bull. 340, p. 429. 10 pages. I. 1907.
- TOURMALINE IN CALIFORNIA. By J L. Cowan. Min. & Sci. Press, vol 100, p. 864. 4 columns.
- PERIDOTITE OF ELLIOTT COUNTY, KENTUCKY. By J S. Diller. U. S. G S., Bull. 38. 31 pages. I. 1887.
- MEERSCHAUM IN NEW MEXICO By D B. Sterrett U. S. G S, Bull. 340, p. 466 6 pages. 1907
- LIMESTONE AND DOLOMITE IN THE BIRMINGHAM DISTRICT, ALABAMA. By C. Butts. U. S. G. S., Bull 315, p. 247. 9 pages 1906.
- THE NIOHARA LIMESTONE OF NORTH-ERN COLORADO AS A POSSIBLE SOURCE OF PORTLAND CEMENT MA-TERIAL By G. C. Martin. U. S. G. S., Bull. 380, p. 314. 13 pages. I. 1908.
- THE MARLS OF NEW JERSEY. By G. H. Cook. Min. Mag., vol. 5, p. 132. 14 pages.
- LITHOGRAPHIC STONE. By S. J. Kubel. U. S. G. S., Mineral Resources, 1900. 4 pages.
- GANISTER IN BLAIR COUNTY, PENN-SYLVANIA. By C. Butts U S. G. S., Bull 380, p. 337. 5 pages. 1908.
- Gravel and Sand in the Pittsburg District, Pennsylvania. By E. W. Shaw. U. S. G. S., Bull. 439, p. 388. 12 pages. I. 1909.
- THE BEREA OIL SAND IN FLUSHING QUADRANGLE, OHIO. By W. T. Griswold. U. S. G. S., Bull. 346, 30 pages. I 1908.

- THE BERBA GRIT OIL SAND IN THE CADIZ QUADRANGLE, OHIO. By W T. Griswold. U. S G. S, Bull. 198, 43 pages I. 1902
- THE LIME INDUSTRY OF KNOX COUNTY, MAINE. By E. S Bastin. U. S. G. S, Bull. 285, p. 393. 8 pages I. 1905.
- Sand-Lime Brickmaking Near Birmingham, Alabama By C. Butts. U S G S, Bull. 315, p 256 2 pages. 1906.
- TALC AND SOAPSTONE IN VERMONT. By G. H. Perkins. E. & M J, vol 86, p. 753. 2½ columns.

Occurrence of Rare Metals

- RABE EARTHS: Their Occurrence and Use By C. Bogenrieder. T. Au. I. M E, vol. 13, p 87 28 pages
- THE RARE METALS. Beryllium By C. Baskerville E. & M J, vol 86, p. 907 2½ columns
- MINERALS OF THE RARE-EARTH
 METALS AT BARINGER HILL, LLANO
 COUNTY, TEXAS By F. L Hess.
 U. S. G S, Bull. 340, p 286 8
 pages. 1907.
- Boron: Its Occurrence and Uses. By E. B. Wilson. M. & M, vol. 30, p. 168. 41 columns.
- THE RARE METALS: Columbium By C. Baskerville. E. & M J, vol 86, p. 960. 2½ columns
- CARNOTITE IN RIO BLANCO COUNTY, COLORADO. By H S. Gale. U. S. G. S., Bull. 315, p 110. 8 pages I. 1906.
- CARNOTITE AND ASSOCIATED MINERALS IN WESTERN ROUTT COUNTY, COLORADO. By H. S Gale. U. S G. S, Bull 340, p 257. 6 pages 1907.
- LITHIUM AND ITS SOURCES. By F L Hess. Min. & Sci Press, vol. 100, p. 822. 5 columns.
- THE RARE METALS: Molybdenum. By C Baskerville. E. & M. J., vol. 86, p. 1055. 2½ columns.

- Some Molybdenum Deposits of Maine, Utah, and California By F L. Hess. U. S. G S, Bull. 340, p 231. 10 pages 1907
- Some Occurrences of Molybdenite in the Santa Rita and Patagonia Mountains, Arizona By F C Schrader and J. M Hill U. S G. S, Bull. 430, p. 154 10 pages. I 1909.
- THE RARE METALS Tantalum. By C. Baskerville E & M J, vol. 86, p. 1110. 2½ columns
- TANTALUM DEPOSITS OF SOUTH DA-KOTA. By F. L. Hess. U. S G S, Bull. 380, p 131 32 pages. I. 1908.
- THE RARE METALS Thorum By C. Baskerville. E & M J., vol. 86, p. 1241. 4 columns.
- THE THORIUM NITRATE INDUSTRY M. & M, vol 30, p 768. 11 columns
- THE RARE METALS: Titanium By C. Baskerville. E. & M J, vol. 87, p. 10. 4 columns.
- RARE METALS: Uranium By C. Baskerville. E & M. J, vol. 87, p. 257. 4 columns.
- RARE METALS: Vanadium. By C Baskerville. E & M J, vol. 87, p 518. 3 columns
- THE PRESENT SOURCE AND USES OF VANADIUM. By J K Smith T. A. I. M. E., vol 38, p. 698. 6 pages.
- Colorado's Rare Metal Industry By H. Fleck. M. & M., vol. 30, p 63. 3½ columns.
- OCCURRENCE OF VANADIUM NEAR TELLURIDE, COLORADO By E. R. Zolinski. E. & M. J., vol. 85, p. 1152. 4 columns. I.
- Vanadium in Peru. By S. Jochamowitz. E. & M. J., vol. 87, p. 996 1 column.
- Vanadrum Deposits in Peru. By D. F. Hewett. Min. & Sci. Press, vol. 98, p. 619. 5½ columns.

Occurrence of Mica

- MICA. Its Characteristics and Commerce. E & M. J., vol. 87, p. 941. 3 columns
- THE MICA INDUSTRY IN CANADA BY F Cirkel. E. & M. J., vol. 85, p. 801 3½ columns. I
- MICA DEPOSITS OF WESTERN NORTH CAROLINA. By D. B. Sterrett. U. S. G. S., Bull 315, p. 400. 22 pages. I. 1906
- MICA DEPOSITS OF NORTH CAROLINA By D B. Sterrett U S G. S., Bull 430, p. 593 48 pages. I. 1909
- MICA DEPOSITS OF SOUTH DAKOTA. By D B Sterrett U. S. G. S., Bull. 380, p. 382 3 pages. 1908
- MICA DEPOSITS IN SOUTH DAKOTA. By D. B. Sterrett Min & Sci. Press, vol. 99, p 826. 4 columns. I
- MICA IN THE HARTVILLE UPLIFT, WYOMING By S. H. Ball U. S. G S, Bull 315, p. 423. 3 pages. 1906
- See also THEORY OF ORE DEPOSITS.

Occurrence of Monazite

- AN OCCUBBENCE OF MONAZITE IN NORTHERN IDAHO. By F. C. Schrader. U. S. G. S., Bull. 430, p. 184 7 pages. I. 1909
- MONAZITE DEPOSITS OF THE CAROLINAS. By D. B. Sterrett. U. S. G. S., Bull 340, p. 272. 14 pages I. 1907.
- Monazite and Monazite Mining in the Carolinas. By J. H. Pratt and D. B. Sterrett. T. A. I. M E., vol. 40, p. 313. 28 pages. I.

Occurrence of Natural Gas

- NATURAL GAS. By J D. Weeks. U. S. G S., Mineral Resources, 1886, vol. 8.
- NATURAL GAS. P. E. Soc. W. Pa., vol. 2, p. 331, 27½ pages; p. 401, 10 pages.

- THE BOTTINEAN GAS FIELD, NORTH DAKOTA. By J. G. Barry E & M. J., vol. 87, p 1089. 3 columns.
- NATURAL GAS FIELD OF INDIANA By A. J. Phinney. U S. G. S., 16th Ann. Rept., pt. 1, pp 579-742. 1889-90 I.
- PETROLEUM AND NATURAL GAS IN THE PHILIPPINES By W D Smith. E. & M J, vol. 88, p 1285 1½ columns.
- Gas Frelds of the Bighorn Basin Wroming. By C. W. Washburne. U. S. G. S., Bull. 340, p. 348. 16 pages. I. 1907

Occurrence of Nickel

- NICKEL ORE IN NEVADA. E. & M J, vol 86, p. 23. 3 column.
- NICKEL-COPPER-PLATINUM ORE IN NEVADA By A. M Thompson. E. & M J., vol 86, p. 72 ½ column.
- NICKEL DEPOSITS OF NICKEL MOUNTAIN, OREGON. By G. F. Kay U. S. G S., Bull. 315, p. 120. 8 pages. 1906.
- The Occurrence of Nickel in Virginia. By T. L. Watson T. A. I. M. E., vol 38, p. 683. 16 pages. I.
- NICKEL IN SOME VIRGINIA IRON-ORES. T. A. I. M E., vol. 39, p. 547. 2 pages.
- See also THEORY OF ORE DEPOSITS.

Ocher Deposits

- OCHER DEPOSITS OF EASTERN PENN-SYLVANIA. By J. C. Stoddard and A. C. Callen. U. S. G. S., Bull. 430, p. 424. 15 pages I 1909
- THE MINERAL-POINT ORES OF LEHIGH
 GAP, PENNSYLVANIA. By E. C.
 Eckel. U. S. G. S., Bull. 315, p. 435.
 3 pages. 1906.
- PAINT-ORE DEPOSITS NEAR LEHIGH GAP, PENNSYLVANIA. By F. T. Agthe and J. L. Dynan U. S. G. S., Bull. 430, p. 440. 14 pages. I. 1909.

- Occurrence of Onyx, Sapphire, Emerald, Ruby, Turquoise, Etc.
- THE RUBY. By M. R. Ward. M. & M, vol. 31, p. 319. 31 columns. I.
- THE TURQUOISE MINING DISTRICT, ARIZONA. By J. M. Platt. E & M J, vol. 87, p 213. 13 columns.
- GEYSERITE: A Variety of Opal, in Germany. E & M. J, vol 90, p. 820. 1 column I
- THE GREATEST GEM MINE IN THE WORLD. P. C. M & M. Soc S. A., vol. 7, p. 99. ½ column
- GEMS IN NEW SOUTH WALES AND QUEENSLAND By F. S. Mance. E. & M J, vol 86, p. 115 } column.
- Some Notes on the White Cliffs Opal Fields, Wilcannia, New South Wales. By F. G de v Gipps. T. Au. I. M E, vol 2, p. 70, 6 pages; p. 76, 5 pages. I.
- RUBY MINES OF THE MOGOK VALLEY BURMA. Min & Sci. Press, vol. 99, p 231. 11 columns
- GENESIS AND CLASSIFICATION OF MEXICAN ONYX. By E. M. Lawton. Min. & Sci. Press, vol. 100, p. 791. 12 columns.
- MONTANA SAPPHIRES. M. & M., vol. 29, p. 199. ½ column.
- SAPPHIRE IN MONTANA. Min. & Sci. Press, vol. 95, p. 433. † column
- TURQUOISE MINING, BURRO MOUNTAINS, NEW MEXICO By E R. Zalinski E. & M. J., vol. 86, p 843. 10 columns. I.
- AMATRICE, A NEW GEM STONE OF UTAH By E. R. Zalinski. E. & M. J, vol 87, p 1038. 6 columns.

Occurrence of Peat

- THE UTILIZATION OF PEAT FOR INDUSTRIAL AND METALLURGICAL PURPOSES. By E. Nystrom. J. C. M I, vol. 11, p. 231. 5 pages.
- THE POSSIBLE USE OF PEAT FUEL IN ALASKA. By C A. Davis. U. S.

- G. S, Bull. 379, p 63 4 pages. 1908.
- THE PREPARATION AND USE OF PEAT AS FUEL IN ALASKA By C. A. Davis U.S.G.S., Bull. 442, p. 101 32 pages 1909.
- See also the United States.
- PEAT IN CANADA E. & M J, vol 88, p 361. 2 columns
- THE PEAT FUEL INDUSTRY OF CANADA. E. & M. J, vol 87, p 905 1 column.
- PEAT BEDS IN INDIANA E & M. J, vol 88, p 789. 2 column
- PEAT DEPOSITS OF MAINE By E. S
 Bastin and C. A. Davis U. S. G. S,
 Bull 376 127 pages. I 1909
- PEAT By H. H. Hindshaw. U S G S, Mineral Resources, 1904
- PEAT DEPOSITS By N. S. Shaler. U. S G. S, 16th Ann Rept, pt. 4 9 pages.

Occurrence of Petroleum

- PETROLEUM Occurrence and Use By Max Livingston. P. E. Soc. W. Pa, vol. 2, p. 193. 14 columns.
- THE OIL SHALES OF THE MARITIME PROVINCES. By R. W. Ells J M. Soc. N. S, vol 14, p. 1. 12½ pages.
- ECONOMIC POSSIBILITIES OF AMERICAN OIL SHALES. By C. Baskerville E. & M. J., vol. 88, p. 149, 153 columns, I.; p. 195, 133 columns, I.
- OCCURRENCE OF OIL AND GAS. By W. Forestner. Min. & Sci. Press, vol. 101, p. 634. 8½ columns. I.
- CLASSIFICATION OF PETROLEUM AND NATURAL GAS FIELDS BASED ON STRUCTURE. By F. G Clapp Min. & Sci. Press, vol. 101, p. 80. ½ column
- S. Pearson and Son's Uncontrollable Oil Gusher E & M. J, vol. 87, p. 7. 9 columns. I.
- THE USE OF GEOLOGICAL SCIENCE IN THE PETROLEUM AND NATURAL GAS BUSINESS. By F. G. Clapp. P. E.

- Soc W Pa, vol 26, p 87. 34 pages. I.
- Oils of West Africa. E & M J., vol. 87, p 1037 3 columns.
- Notes on the Petroleum Fields of Alaska. By G C Martin U S. G S, Bull 259, p. 128 11½ pages. I.
- PETROLEUM AT CONTROLLER BAY. By G C Martin. U. S. G S, Bull. 314, p. 89 35 pages I. 1906
- THE PETROLEUM FIELDS OF THE PACIFIC COAST OF ALASKA, WITH AN ACCOUNT OF THE BERING RIVER COAL DEPOSITS By G C. Martin. U S. G S, Bull 250. 64 pages. I. 1905
- KATALLA, ALASKA, OIL FIELD By W T. Prosser M. & M., vol. 31, p 731. 1½ columns.
- THE AUSTRALIAN OIL SHALE INDUSTRY. E & M J, vol. 87, p. 1051. 12 columns.
- OIL SHALE DEPOSITS, BLUE MOUNTAINS, NEW SOUTH WALES By H. L. Jene. E. & M. J., vol 90, p 407. 4½ columns. D.
- On Resources of California By M L Requa. Min Mag. London, vol 4, p 47. 10½ columns. Map.
- OIL INDUSTRY IN CALIFORNIA IN 1909. Mm. & Sci. Press, vol. 100, p. 97. 5 columns I.
- PETROLEUM DEVELOPMENT IN SAN JOAQUIN VALLEY. E & M J., vol. 89, p 964. 7 columns.
- THE CALIFORNIA OII. INDUSTRY. By C. De Kalb. Min & Sci Press, vol. 100, p. 857. 5% columns
- Geology of the Coalinga District, California. By R. Arnold and R. Anderson. U. S. G. S., Bull. 398. 354 pages. I. 1910.
- PRELIMINARY REPORT ON THE COAL-INGA OIL DISTRICT IN FRESNO AND KINGS COUNTIES, CALIFORNIA By R. Arnold and R. Anderson. U. S. G. S., Bull. 357. 142 pages. I. 1908.

- OIL MEASURES IN THE COALINGA DISTRICT, CALIFORNIA By W Forstner. Min & Sci. Press, vol 98, p. 386. 32 columns
- GEOLOGY AND OIL RESOURCES OF THE SANTA MARIA OIL DISTRICT, SANTA BARBARA COUNTY, CALIFORNIA. By R. Arnold and R. Anderson. U S. G S, Bull. 322 161 pages. I. 1907.
- GEOLOGY AND OIL RESOURCES OF THE SUMMERLAND DISTRICT, SANTA BAR-BARA COUNTY, CALIFORNIA. By R. Arnold U. S. G. S., Bull 321 91 pages. I. 1907.
- PRELIMINARY REPORT ON McKITTRICK-SUNSET OIL REGION, CALIFORNIA. By R. Arnold and H. R. Johnson. U. S. G. S., Bull. 406. 225 pages. I 1910
- THE SAIT LAKE OIL FIELD NEAR LOS ANGELES, CALIFORNIA. By R. Arnold. U. S. G. S., Bull 285, p. 357. 5 pages. I. 1905.
- THE MINER RANCH OIL FIELD, CONTRA COSTA COUNTY, CALIFORNIA. By R. Arnold. U. S. G. S., Bull 340, p. 339. 4 pages 1907.
- LAKE VIEW GUSHER: A Large Oil Well in Midway Field, California. Min. & Sci. Press, vol. 100, p. 925. 2 columns. I.
- THE LOS ANGELES OIL INDUSTRY By P. E. Barbour. E. & M. J., vol. 88, p 365. 5 columns
- THE TILBURY AND ROMNEY OIL-FIELDS IN ONTARIO E & M. J, vol. 85, p. 363. 1 column.
- THE COMMERCIAL VALUE OF THE OIL-SHALES OF EASTERN CANADA, BASED ON THEIR CONTENTS, BY ANALYSIS IN CRUDE OIL AND AMMONIUM SUL-PHATE. By R. W. Ells. J. M. Soc N. S, vol. 15, p. 29. 28 pages.
- THE NEW TILBURY AND ROMNEY OIL FIELDS OF KENT COUNTY, ONTARIO. By E. Coste. J. C. M. I, vol. 10, p. 77. 8 pages.
- THE FLORENCE OIL FIELD, COLORADO. By C. W. Washburne. U. S. G. S.,

- Bull. 381, p 517. 28 pages. I. 1908.
- THE DEVELOPMENT IN THE BOULDER OIL FIELD, COLORADO. By C. W. Washburne. U. S. G. S., Bull. 381, p. 514. 2½ pages. 1908.
- GEOLOGY OF THE RANGEL OIL DISTRICT, COLORADO, WITH A SECTION ON THE WATER SUPPLY. By H. S. Gale U S G S., Bull. 350. 60 pages. I. 1908.
- OIL-SHALE AT PUMPHERSTON, SCOT-LAND. By W. Caldwell. T I M. E, vol 36, p. 581. 9½ pages. I.
- THE PUMPHERSTON, SEAFIELD, AND DEANS WORKS OF THE PUMPHERSTON OIL COMPANY. T. I. M. E., vol. 36, p. 602. 8 pages.
- Petroleum Fields of Illinois. By H. F. Bain. Min. & Sci. Press, vol. 99, p. 153. 42 columns. I.
- Pumping and Shipping Oil in East-EEN Illinois. By R S. Blatchley. Min. & Sci. Press, vol. 99, p 678. 6 columns. I.
- Petroleum in Burma. By E. A. Wakefield. Min. & Sci. Press, vol. 99, p. 500 13 columns.
- THE TRENTON LIMESTONE AS A SOURCE OF PETROLEUM AND INFLAMMABLE GAS IN OHIO AND INDIANA. By E. Orton. U S G S, 8th Ann Rept., pt. 2, pp. 475–662. 1886–87 I
- OIL AND GAS IN LOUISIANA, WITH A BRIEF SUMMARY OF THEIR OCCUR-RENCE IN ADJACENT STATES. By G D Harris. U S.G. S., Bull. 429. 192 pages. I 1910.
- MEXICAN OILFIELDS. E & M. J, vol. 87, p. 1233. 1 column.
- OIL DEVELOPMENTS IN MEXICO. E. & M. J., vol. 88, p. 660 17 columns
- THE OIL FIELDS OF MEXICO. By H. S. Denny. Min. Mag., London, vol. 3, p. 36. 8 columns. Map.
- OIL IN MEXICO. By J. L. Mennell Min. Mag., London, vol. 2, p. 448. 5 columns Map.

- OIL IN MEXICO. By A R Skertchly. Min. Mag., London, vol. 3, p 283 6 columns. I
- OIL IN THE STATE OF VERA CRUZ, MEXICO. By E. Ordoñez. Min & Sci. Press, vol. 95, p 247. 32 columns. I.
- OIL PROSPECTS IN NEVADA. Min. & Sci. Press, vol 97, p 817 2 columns.
- Two Areas of Oil Prospecting in Lyon County, Western Nevada. By R. Anderson. U. S. G. S., Bull. 381, p. 490. 3 pages. 1908.
- ALLEGED OIL PROSPECTS IN NEVADA.

 M. & M, vol 29, p. 335. 1½ columns.
- GEOLOGY AND OIL PROSPECTS OF THE RENO REGION, NEVADA. By R. Anderson. U S G. S, Bull. 381, p. 475. 15 pages. 1908
- Analyses of Crude Petroleum from Oklahoma and Kansas By D T. Day. U.S G S, Bull 381, p. 494. 10 pages. 1908.
- THE MADILL OIL POOL, OKLAHOMA.
 By J. A. Taff and W J. Reed. U. S
 G. S., Bull. 381, p 504 12 pages
 I. 1908.
- THE MALHEUR OILFIELDS OF ORE-GON. E. & M. J, vol 88, p. 512. † column.
- THE NINEVEH AND GORDON OIL SANDS IN WESTERN GREENE COUNTY, PENNSYLVANIA. By F G. Clapp U. S. G. S., Bull 285, p. 362 4½ pages. 1905.
- RECENT PROGRESS AT MAIKOP: A
 Russian Oil Field. By T. J. Hoover.
 Mm Mag., London, vol 4, p. 298.
 3 columns. I.
- PROBLEMS OF THE RUSSIAN OIL INDUSTRY. By F. Richards. E. & M. J., vol. 88, p. 69. 4 columns.
- RUSSIAN PETROLEUM. M. & M., vol 30, p. 655. 3 columns.
- OILFIELDS OF SAKHALIN. By C. E Pfaffius. Min. Mag., London, vol. 3, p. 447. 2 columns.

- MAIKOP OIL-FIELD. By A. B. Thompson Min. Mag., London, vol. 2, p. 277. 7½ columns. I.
- OIL INDUSTRY OF THE UNITED STATES. Min. & Sci. Press, vol. 96, p. 202. 5² columns
- THE PETROLEUM FIELDS OF THE UNITED STATES. By W. G. Burroughs. E. & M. J., vol. 89, p. 921. 11 columns. I.
- PETROLEUM IN SOUTHERN UTAH. By G. B. Richardson. U S G. S., Bull. 340, p. 343. 5 pages 1907.
- THE NEW OILFIELD IN UTAH By A. P. Rogers. E. & M J, vol. 87, p. 989. 2½ columns. I
- Petroleum in Venezuela. E. & M. J., vol. 90, p. 506. 12 columns.
- Petroleum Industry, Venezuela. M & M., vol. 31, p. 158. 1½ columns.
- WEST VIRGINIA OIL AND GAS NOTES. E. & M. J., vol. 90, p. 823. 4½ columns.
- OIL FIELD AT FOLLANSBEE, WEST VIRGINIA. By F. W. Brady. M. & M., vol 29, p. 207. 4½ columns. I.
- Notes from the Oil Fields By F. W Brady. M. & M., vol. 30, p. 156. 3½ columns. I.
- THE LABARGE OIL FIELD, CENTRAL UINTA COUNTY, WYOMING. By A. R. Schultz. U. S. G. S., Bull. 340, p. 364. 9 pages. I. 1907.
- See also Theory of Ore Deposits and Geology of Fuels and Ores.
- See also Miscellaneous Production.

Occurrence of Phosphates

- PHOSPHATE CLAIMS ON PUBLIC LANDS.

 Min. & Sci. Press, vol. 98, p. 862.

 41 columns.
- See also United States.
- PHOSPHATE DEPOSITS OF OCEAN AND PLEASANT ISLANDS. By F. D. POWERS. T. Au. I. M. E., vol. 10, p. 213. 20 pages. I.

- Investigation on the Rock Guano from the Islands of the Carribean Sea By W. J Taylor. Min. Mag, vol. 8, p. 438 11 pages.
- PHOSPHATES IN TUNIS. E. & M J., vol. 88, p. 177. 12 columns.
- DEVELOPED PHOSPHATE DEPOSITS OF NORTHERN ARKANSAS. By A. H. Purdue. U S. G S, Bull. 315, p 463 11 pages. 1906.
- THE CLARENDON PHOSPHATE DE-POSIT, NEAR DUNEDIN, NEW ZEA-LAND. By A Andrew. T. Au. I. M. E., vol 11, p. 177. 20 pages. I
- PHOSPHATE MINING IN BELGIUM T I. M. E., vol 37, p. 683. 2½ pages.
- DEVELOPMENTS IN THE FLORIDA PHOS-PHATE INDUSTRY. By C. G. Memminger E. & M. J, vol. 89, p 184 3 columns.
- PRODUCTION OF PHOSPHATE ROCK IN FLORIDA DURING 1908 By E H Sellards E & M J, vol. 88, p. 129. 1½ columns
- PHOSPHATE MINING IN FLORIDA E. & M. J., vol. 85, p 597. 1 column.
- PHOSPHOROUS ORE AT MOUNT HOLLY SPRINGS, PENNSYLVANIA By G. W. Stose U. S. G. S., Bull 315, p. 474. 9 pages. 1906.
- PHOSPHATE DEPOSITS IN THE PHILIP-PINES. U. S. G. S., 21st Ann. Rept, pt 3, 644 pages. 1899–1900. I.
- CONDITION OF THE PHOSPHATE INDUSTRY IN TENNESSEE. By H D. Ruhm. E & M. J, vol 89, p. 180. 3 columns.
- PHOSPHATE MINING IN TENNESSEE. By H. D. Ruhm. E. & M. J., vol. 85, p. 153 3½ columns. I.
- PHOSPHATE MINING IN TENNESSEE. By H. D. Ruhm. E. & M. J., vol. 85, p. 404. 2 columns.
- PHOSPHATE MINING IN TENNESSEE By H. D Ruhm. E. & M. J, vol. 85, p. 573. 2 columns.
- PHOSPHATE ROCK IN TENNESSEE. By H. D Ruhm E. & M. J., vol. 85, p. 1150. 2½ columns.

- PHOSPHATE DEPOSITS OF UNITED STATES By F. B. Van Horn. Min. & Sci. Press, vol. 99, p 88 5 columns.
- PHOSPHATE DEPOSITS IN WESTERN
 UNITED STATES By F. B Weeks
 and W. F. Ferrier U. S G S,
 Bull 315, p. 449 14 pages I
 1906
- PHOSPHATE DEPOSITS IN THE WESTERN UNITED STATES By F B Weeks. U. S. G S, Bull 340, p 441. 6½ pages. 1907
- See also MISCELLANEOUS DISTRICTS
- PHOSPHATE DEPOSITS EAST OF OGDEN,
 UTAH. By E. Blackwelder U. S.
 G. S., Bull 430, p. 536 15 pages.
 I 1909
- PRELIMINARY REPORT ON THE PHOSPHATE DEPOSITS IN SOUTHEASTERN IDAHO AND ADJACENT PARTS OF WYOMING AND UTAH. By H. S. Gale and R. W. Richards U. S. G. S., Bull. 430, p. 457. 82 pages. I. 1909.
- See also THEORY OF ORE DEPOSITS

Occurrence of Platinum

- PLATINUM By F. W Horton. U. S. G. S, Mineral Resources, 1905 12 pages.
- THE GEOLOGICAL RELATIONS AND DISTRIBUTION OF PLATINUM AND ASSOCIATED METALS. By J F Kemp U. S G S, Bull. 193. 95 pages I. 1902.
- PLATINUM DEPOSITS IN BRITISH CO-LUMBIA J. C M. I., vol. 13, p. 317. 2½ pages.
- PLATINUM MINING IN THE TULAMEEN
 DISTRICT, BRITISH COLUMBIA. By
 C Camsell. J. C. M I., vol 13,
 p. 309. 15 pages I Map
- GEOLOGY OF THE PLATINUM DEPOSITS OF COLOMBIA. By J. C Castillo. Min. & Sci. Press, vol. 98, p. 826. 3½ columns. I
- PLATINUM IN SOUTHEASTERN NEVADA. By H. Bancroft. U. S G S., Bull. 430, p. 192. 7 pages. I. 1909.

- PLATINUM IN SOUTHEASTERN NEVADA By H C Bancroft Min & Sci Press, vol 100, p 797 ½ column
- PLATINUM AT THE CRACKER JACK MINE, DOUGLAS COUNTY, OREGON By H B Pulsifer E & M J, vol. 86, p. 1003. 2½ columns
- RUSSIAN PLATINUM AND FOREIGN COM-PANIES IN RUSSIA. By V. X. Prardinsky E & M. J, vol. 89, p. 1025 5\frac{1}{3} columns
- RUSSIAN PLATINUM DEVELOPMENTS. M. & M, vol. 30, p 400 2 columns
- PLATINUM IN THE UNITED STATES. By D. T. Day. Min & Sci. Press, vol 100, p. 582 ½ column
- PLATINUM IN RAMBLER MINE, WYO-MING. By J F. Kemp. U S G S., Mineral Resources, 1902 7 pages. See also Theory of Ore Deposits.

Occurrence of Quicksilver

- RARE MERCURY ORES. By C. G. Dennis Min. & Sci Press, vol. 95, p 92. 1 column. I.
- Notes on the Occurrence of Cinnabar in Central Western Arizona. By H. Bancroft. U. S. G. S., Bull 430, p. 151. 3 pages 1909
- MERCURY MINES AT KONIAH, ASIA MINOR By F. F. Sharpless. E & M J, vol 86, p 602. 7½ columns. I.
- QUICKSILVER IN CALIFORNIA. Min. & Sci. Press, vol 100, p. 15. 3½ columns. Map.
- MERCURY MINES OF NEW ALMADEN, CALIFORNIA Min. Mag., vol. 10, p 142 2½ pages.
- DULCES NOMBRES QUICKSILVER DE-POSIT, MEXICO. By P. A Babb. E & M. J., vol. 88, p. 684. 7½ columns. I.
- QUICKSILVER IN NEVADA. By W. C. Davis. Min. & Sci. Press, vol 99, p 663. \frac{2}{3} column I.
- QUICKSILVER AT HUANCAVETICA, PERU. By L. W. Strauss Min. & Sci. Press, vol 99, p. 561. 11¹/₃ columns I.

- Cinnabar in Spain Min Mag, vol 7, p 150. 4½ pages.
- CONDITION OF THE QUICKSILVER INDUSTRY IN TEXAS By W B Philips. E & M. J, vol 88, p 1022. 8 columns.
- MERCURY MINERALS FROM TERLINGUA,
 TEXAS By W F Hillsbrand and
 W T Schaller. U. S G. S, Bull.
 405 174 pages I 1909
- MERCURY IN TURKEY. Min. & Sci Press, vol 98, p 826. 1 column.
- QUICKSILVER PRODUCTION IN FOREIGN COUNTRIES. By H. W. Turner. Min. & Sci Press, vol. 100, p 16. 12 columns.

Occurrence of Rutile

- THE VIRGINIA RUTILE DEPOSITS BY F. L Watson and S Taber. U. S. G S, Bull. 430, p 200 14 pages I. 1909.
- RUTILE DEPOSITS OF VIRGINIA. Min. & Sci Press, vol. 98, p 896. 1½ columns.

Occurrence of Salt

- THE SALINE DEPOSITS OF CARMEN ISLANDS By E. H. Cook. E. & M J, vol 85, p 545 3½ columns I.
- DESTRUCTION OF THE SALT-WORKS OF THE COLORADO DESERT BY THE SALTON SEA. By W. P. Blake T. A. I M. E, vol. 38, p. 848. 1 page.
- THE SALT MINING INDUSTRY IN THE RUSSIAN EMPIRE. By F. Thiess. T. I. M. E., vol. 37, p. 702 1½ pages.
- Salit and Gypsum of the Preston Valley of the Holston River, Virginia. By H. D. Rogers. Min Mag., vol. 4, p. 28. 7 pages.
- THE SALT RESOURCES OF THE IDAHO-WYOMING BORDER, WITH NOTES ON THE GEOLOGY. By C. L. Berger. U. S. G. S., Bull. 430, p. 555. 15 pages. 1909.

Deposits of Sodium Salts in Wyoming. By A. R. Schultz. U. S G. S., Bull. 430, p. 570. 19 pages. I 1909.

Occurrence of Sulphur

- A New Source of Supply of Sulphur. T. A. I. M. E, vol. 39, p. 522 18 pages. I.
- MAKUSHIN SULPHUR DEPOSITS, UN-ALASKA. By N. O Lawton. Min & Sci. Press, vol. 98, p 258 4 columns. I.
- SULPHUR MINING IN MEXICO. By E. F. White. M. & M, vol 30, p. 75. 3½ columns. I.
- THE SULPHUR DEPOSITS OF MAPIMI, MEXICO. By J. D. Villarello. T. I. M. E., vol. 37, p. 676 2 pages.
- SULPHUR IN THE NEW HEBRIDES ISLANDS. E. & M. J., vol. 87, p. 958. $\frac{3}{4}$ column.
- A New Source of Supply of Supplur. T. A I. M. E., vol 39, p. 522. 18 pages. I.
- THE COVE CREEK SULPHUR BEDS, UTAH. By W. T. Lee. U. S. G. S., Bull. 315, p. 485. 5 pages. 1906.
- SULPHUR DEPOSITS NEAR THERMOPO-LIS, WYOMING. By E. G. Woodruff. U. S. G. S., Bull. 380, p. 373. 8 pages. I. 1908.
- SULPHUR DEPOSITS AT CODY, WYOM-ING. By E. G. Woodruff. U. S. G. S., Bull. 340, p. 451. 6 pages. I. 1907.

Occurrence of Silver, Cobalt, Etc.

- SILVER: History and Mode of Occurrence. By T. F. Van Wagenen. Mm. & Sci. Press, vol. 97, p. 392. 72 columns.
- A SILVER BEARING DIORITE IN SOUTH-ERN ARIZONA. By J. Bond. E. & M. J., vol. 89, p. 1268. 4 columns.
- BROKEN HILL SILVER MINE. By E. C. Andrews. Min. & Sci. Press, vol. 98, p. 158. 2 columns.

- ORE DEPOSITS OF THE PEAKS SILVER FIELD, NEW SOUTH WALES By C. O. G. Larcombe T. Au I. M E, vol 11, p 128. 8 pages I.
- OCCURRENCE OF SILVER-LEAD ORES AT THE EUGENE MINE, KOOTENAY, BRITISH COLUMBIA. E & M. J, vol. 89, p. 420. 1½ columns. I.
- The Silver Veins of the Montreal River District, Canada. By A E Barlow. Min. & Sci. Press, vol. 97, p. 462. 6½ columns.
- MINING AT COBALT. By F. C Loring. E. & M J., vol 85, p 905. 4 columns.
- MINING AT COBALT By F. C. Loring. J. C. M. I., vol. 11, p. 335. 5 pages.
- OCCURRENCE OF THE COBALT-SILVER ORES OF NORTHERN ONTARIO J. C. M. I., vol. 11, p. 275 12 pages.
- The Cobalt Mining District. By R. Bell. J. C M I, vol. 10, p. 62. 10 pages.
- The Ore Deposits of the Cobalt District, Ontario, Canada. By C. R. Van Hise J. C. M. I., vol. 10, p. 45. 16 pages.
- THE PROBABLE NUMBER OF PRODUC-TIVE VEINS IN THE COBALT DIS-TRICT. By G. R. Mickle. J. C. M. I., vol. 13, p. 325. 12 pages.
- THE PRESENT POSITION OF COBALT, CANADA. By H. P. Davis. E. & M. J., vol 86, p 855 5 columns. I.
- THE COBALT SILVER DISTRICT, ON-TARIO, CANADA. By W. B. Phillips. E. & M. J., vol 86, p. 518. 2½ columns.
- COBALT, ONTARIO, CANADA. By H. B. Smith Min. & Sci. Press, vol. 96, p. 876. 5½ columns. I.
- COBALT, ONTARIO, CANADA. By F. C. Loring Min & Sci. Press, vol. 95, p. 814. 2½ columns. I.
- OPERATIONS IN THE COBALT DISTRICT, ONTARIO. By E. Higgins. E & M. J., vol. 87, p. 1267. 14 columns I.
- THE COBALT DISTRICT IN 1909. By R. E. Hore. E & M. J, vol. 89, p. 703. 4 columns. I.

- THE SOUTH LORRAINE SILVER DISTRICT, ONTABIO, CANADA. By W. B Phillips. E. & M J, vol. 87, p 214. 4 columns.
- THE SILVER ISLET VEIN, LAKE SU-PERIOR. By W. McDermott. T. I. M & M, vol 18, p. 220. 34½ pages.
- OCCURRENCE OF ORE IN SILVER ISLET MINE. T I M. & M, vol. 18, p. 222. 4 pages.
- SILVER-LEAD MINES OF BAWDWIN, SHAN STATES, CHINA. By T D. La Touche and J C. Brown. E. & M. J., vol 88, p. 550 16½ columns. I.
- SILVER-LEAD MINING IN FREIBERG, GERMANY. By W. G. Brown. E. & M J, vol. 87, p. 987. 5½ columns.
- THE SILVER MINES OF MEXICO. By A F. J. Bordeaux. T. A I M. E, vol. 39, p. 357. 11½ pages.
- THE MINERAL RESOURCES OF SONORA.

 By F. J. H. Merrill. Min. & Sci.

 Press, vol. 96, p. 33. 14 columns.

 I. Map.
- San Javier, an Old Silver District of Sonora. By C. N. Nelson E. & M. J., vol. 90, p. 660. 4 columns Map.
- Las Chispas Mines, Sonora, Mexico. By B. E. Russell E. & M. J, vol 86, p. 1006 6 columns I.
- EL TIGRE MINE, MONTEZUMA DISTRICT, SONORA, MEXICO. By R L Herrick. M. & M., vol. 29, p. 483. 10 columns. I.
- Ores of the El Tigre Mine, Sonora, Mexico. M. & M., vol. 29, p. 486. † column.
- THE PROMONTORIO SILVER MINE, DURANGO, MEXICO. By F. C. Lincoln. T. A. I. M. E., vol. 38, p. 734. 16 pages. I.
- LORETO MINE AND THE PINGUICO DISTRICT, GUANAJUATO, MEXICO. By C. W. Botsford. E. & M. J., vol. 88, p. 650. 2½ columns. I.

- THE ZACATECAS DISTRICT AND ITS
 RELATION TO GUANAJUATO AND
 OTHER CAMPS. By C W Botsford.
 E. & M. J, vol 87, p. 1227 4 columns I
- Notes on Guanajuato By T A. Rickard Min & Sci. Press, vol 95, p 83. 2½ columns. I.
- OPERATIONS OF GUANAJUATO DEVELOPMENT COMPANY. E. & M J., vol 88, p. 651. 10 columns. I.
- THE WORKING MINES OF GUANA-JUATO By C. T. Race. E. & M. J., vol 86, p 806. 8 columns. I.
- HISTORY OF LA LUZ CAMP, GUANA-JUATO, MEXICO E. & M J., vol. 88, p. 646. $\frac{2}{3}$ column.
- THE GUANAJUATO MINING DISTRICT, MEXICO. E & M. J., vol 90, p. 1310. 6 columns I
- GUANAJUATO, THE GREAT SILVER CAMP OF MEXICO. By C. T. Rice. E & M. J., vol. 86, p. 669. 9\frac{3}{2} columns. I.
- MINES OF AJUCHITLAN, QUERETARO, MEXICO. By S. J. Lewis. Min. & Sci. Press, vol. 100, p. 211. 8² columns. I.
- THE MINES OF EL DOCTOR, MEXICO.
 By T. D Murphy Mm. & Sci.
 Press, vol. 95, p 241. 8½ columns. I.
- THE SILVER-LEAD MINES OF SANTA BARBARA, MEXICO. By C. T. Rice. E. & M. J., vol. 86, p. 207. 12 columns. I.
- Ore of the Santa Barbara District, Mexico. E. & M. J, vol. 86, p. 208. 2 columns
- Las Lamentos Mine, Chihuanua. E & M. J., vol 87, p. 489. 1 column.
- RECENT MINING DEVELOPMENTS IN CHIHUAHUA. By A. P Rogers. E. & M. J, vol 88, p. 681. 6½ columns. I.
- STORIES OF THE BATOPILAS MINES, CHIHUAHUA, MEXICO. By M. R. Lamb. E. & M. J., vol. 85, p 689. 4½ columns. I.

- Santa Barbara Mine, Chihuahua, Mexico. M. & M, vol. 29, p. 369. 3 columns I.
- NATIVE SILVER IN SOUTHWESTERN CHIHUAHUA, MEXICO. By W. M. Brodie. E. & M. J., vol. 89, p. 664. 5½ columns. I.
- TRAVELING IN WESTERN CHIEUARUA, MEXICO By F. H. Morley. E. & M. J., vol 87, p. 706. 8½ columns.
- MINING IN NORTHERN SINALOA, MEXICO By E A. H. Tays Min & Sci. Press, vol. 99, p 120. 32 columns Map.
- THE ANTIQUA OF REAL DE SIVIRIJOA, SINALOA. By E. A. H Tays. E & M. J, vol 90, p. 1155 5½ columns I.
- THE SILVER-MINES OF MEXICO Discussion of Paper of A. F. J. Bordeaux, vol 39, p 357.

T. A. I M E, vol. 40, p 848. 5 pages.

- THE ZACUALPAN DISTRICT, MEXICO. By J. M Platt. E & M J., vol. 88, p. 670 4 columns. I
- THE SILVER MINE OF "JESUS MARIA," IN NEW LEON, MEXICO. Min. Mag, vol. 1, p. 570, 11½ pages; p. 34, 14 pages.
- MINES OF PENOLES COMPANY, MAPIMI, MEXICO. By C. T. Rice. E. & M. J, vol. 86, p 309. 13½ columns I.
- PACHUCA AND REAL DEL MONTO SILVER DISTRICT, MEXICO. By C T. Rice. E. & M. J, vol. 86, p. 519. 17 columns. I.
- Some Reminiscences of Old Dolores, Mexico. By V Pender. E. & M. J, vol. 89, p 1329. 6 columns.
- DIENTE, MEXICO. By E. McCormick. Min & Sci Press, vol 95, p. 648. 1 column.
- ZACATECAS, A FAMOUS SILVER CAMP OF MEXICO By C T. Rice. E. & M. J., vol 86, p. 401. 15½ columns. I.

- THE SILVER OF THE LAKE SUPERIOR MINERAL REGION. Min Mag, vol. 1, p. 447, 8 pages, p 612, ‡ page.
- THE CORBINE DISTRICT, JEFFERSON COUNTY, MONTANA. By F Bushnell. E & M. J, vol 89, p 1154 5½ columns I.
- THE SILVER-LEAD DEPOSITS OF EUREKA, NEVADA. E. & M. J, vol. 85, p 123 3 columns
- THE COMSTOCK MINES TODAY. By W. Symmes Min. & Sci. Press, vol. 99, p 24. 4½ columns. I
- PROGRESS ON THE COMSTOCK LODE. By R. L Herrick M & M, vol 29, p 150 10½ columns I.
- THE GREAT COMSTOCK LODE By G. McM. Ross. Min. & Sci Press, vol. 95, p. 468 4 columns
- GEOLOGY AND MINERAL RESOURCES
 OF THE OSCEOLA MINING DISTRICT,
 WHITE PINE COUNTY, NEVADA BY
 F B Weeks U S G S., Bull
 340, p 117 18 pages I 1907
- THE YELLOW PINE MINING DISTRICT OF NEVADA. By N B. Gregory. E. & M. J, vol. 90, p. 1308 5½ columns
- NOTES ON THE PIOCHE MINING DISTRICT, NEVADA By S. F. Shaw. E & M. J., vol. 88, p 545. 10\frac{1}{2} columns I.
- PIOCHE, NEVADA. By J W Abbott Min. & Sci Press, vol 95, p 176. 4 columns I
- HORNSILVER DISTRICT, NEVADA By F L Ransome. Min & Sci Press, vol. 99, p. 433. 2 columns
- THE HORNSILVER DISTRICT, NEVADA. By F. L. Ransome U. S. G. S., Bull 380, p. 41 3 pages. 1908.
- Genesis of the Lake Valley, New Mexico, Silver Deposits. By C. R. Keyes. T. A. I M E, vol. 39, p 139 30½ pages. I.
- THE PRESIDIO SILVER MINES, SHAFTER, TEXAS. By M. P. Kirk. E. & M. J., vol. 88, p. 818. 4½ columns. I.

- SHAFTER SILVER DISTRICT, PRESIDIO COUNTY, TEXAS. By W B. Phillips. E. & M J, vol. 90, p. 1303 6\frac{2}{2} columns. I.
- SILVER-LEAD MINES OF THE UNITED STATES. E. & M. J, vol. 85, p 374. 1 column.
- PARK CITY, UTAH. Min & Sci. Press, vol 100, p. 793. 4 columns. I.
- THE GRAN PROBRE SILVER MINE IN VENEZUELA. By C. Kissler. Min Mag, vol 2, p. 121. 4 pages.

Occurrence of Tin

- BIBLIOGRAPHY OF TIN-DEPOSITS IN NORTH AMERICA. T A I M. E, vol. 38, p 682. 1 page
- See also United States.
- Nigerian Tin Mining. E. & M J, vol 90, p. 1299. 2 column.
- TIN DEPOSITS OF THE TRANSVAAL. E. & M. J., vol. 88, p. 778. 2½ columns.
- TIN MINING AND ORE DRESSING IN SOUTH AFRICA. By E. M. Weston. E. & M. J, vol. 89, p. 411, 7½ columns, I.; p. 470, 7 columns, I; p. 573, 7 columns, I
- Tin in the Belgian Congo T. A. I. M. E., vol. 41, p. 209 2 pages I.
- THE GROENFONTEIN TIN MINES BY E. M. Weston E & M. J, vol 90, p. 515. \(\frac{2}{3}\) column. I
- THE SOUTH AFRICAN TIN DEFOSITS. By W R Rumbold. T A. I. M E., vol. 39, p 783 7 pages. I.
- Tin Mining in Cape Colony. By H. D. Griffiths. P C. M. & M., Soc. S. A., vol 8, p. 167. 28 columns. I.
- RECENT DEVELOPMENT OF ALASKAN
 TIN DEPOSITS By A. J. Colher.
 U. S. G. S., Bull 259, p. 120. 7½
 pages. I.
- TIN IN YORK REGION, ALASKA. By A. H. Brooks. U. S. G. S, Mineral Resources, 1900.

- Geology of the Seward Peninsula Tin Deposits, Alaska. By A. Knopf. U. S. G. S., Bull. 358. 72 pages. I. 1908.
- THE SEWARD PENINSULA TIN DE-POSITS, ALASKA By A. Knopf U. S. G. S., Bull. 345, p. 251 18 pages. I. 1907.
- TIN DEPOSITS OF CAPE PRINCE OF WALES, ALASKA. By A. H. Fay. Mm. & Sci. Press, vol. 95, p. 744. 6 columns. I.
- TIN DEPOSITS OF CAPE PRINCE OF WALES, ALASKA By A H Fay. T A. I M. E, vol. 38, p 669. 9 pages. I.
- OCCURRENCE OF WOLFRAMITE AND CASSITERITE IN THE GOLD PLACERS OF DEADWOOD CREEK, BIRCH CREEK DISTRICT, ALASKA. By B L Johnson. U. S G. S., Bull 442, p. 246. 5 pages. 1909.
- TIN MINING AND MILLING IN NORTH QUEENSLAND. By G W Williams. E. & M. J., vol 87, p. 1092. 62 columns.
- THE NORTH DUNDAS TIN DISTRICT. By J. M. Bell. Min. Mag., London, vol. 4, p. 59. 4 columns Map
- TIN MINING IN BOLIVIA. By W. R. Rumbold. Min Mag, London, vol. 2, p. 451. 6 columns. I.
- TIN MINING IN BOLIVIA. By W. Gray and A. L. Halden Min. Mag, London, vol. 3, p 203. 6 columns. I.
- THE CHOROLOUE TIN DISTRICT, BO-LIVIA. Min. Mag., London, vol. 4, p. 213. 6 columns. I. D.
- Tim Deposits of the Carolinas. By S. M. Ball E & M. J, vol. 87, p. 1130 2½ columns.
- TIN PRODUCTION IN THE PROVINCE OF YUNNAN, CHINA. By W. F. Collins. T. I. M. & M., vol. 19, p 187. 24 pages. I.
- OCCURRENCE OF TIN IN THE PROVINCE OF YUNNAN, CHINA. T I. M. & M., vol. 19, p 188. ½ page.

- Tin, Tungsten, and Tantalum Deposits of South Dakota. By F. L. Hess. U. S. G. S., Bull. 380, p 131. 32 pages. I. 1908.
- MINING IN THE MALAY STATES. By E. S. Marks. Min. & Sci. Press, vol. 98, p. 31. 10½ columns. I.
- TIN MINING IN ULN GELANGOR, FED-ERATED MALAY STATES. By E. Nightingale. T. I. M. & M., vol. 17, p. 159. 12½ pages. I.
- MINING LODE TIN IN MALAYA. E & M. J., vol. 86, p. 371. 4 columns.
- The Red River, Cornwall, Eng-Land. By E. Walker. Min. & Sci. Press, vol. 97, p. 849. 2 columns.
- A TIN DEPOSIT NEAR SPOKANE. By A. R. Whitman. Min. & Sci. Press, vol. 95, p. 49. 1½ columns. I.
- THE CERRO DE PASCO MINING DISTRICT, PERU. By C. C. Sample. E. & M. J., vol. 85, p. 155. 11 columns. I.
- TIN DEPOSITS OF TASMANIA. M. & M., vol. 31, p. 309. 4 columns. I.
- Notes on the Zeehan Mining Field, Tasmania. By G. W. Williams. E. & M. J., vol. 89, p. 713. 72 columns. I.
- TIN MINING IN TASMANIA. By J. B. Lewis. E. & M. J., vol. 85, p. 485. 12½ columns. I.
- MOUNT BISCHOFF OF TASMANIA. By F. H. Bathurst. Min. Mag., London, vol. 3, p. 195. 10 columns. I.
- Franklin Mountain Tin Prospects By R. Chauvenet. M. & M., vol. 30, p. 529. 4½ columns.
- TIN DEPOSITS OF THE SOUTHERN AP-PALACHIANS. By L. C. Graton. U. S. G. S., Bull. 293. 134 pages. I. 1906.
- See also MISCELLANEOUS DISTRICTS.
- TIN ORE AT SPOKANE, WASHINGTON. By A. J. Collier. U S. G. S., Bull. 340, p. 295. 12 pages. I. 1907.
- See also Theory of Ore Deposits and Geology of Fuels and Ores.

Occurrence of Tungsten

- TUNGSTEN: Its Occurrence and Use. M. & M, vol. 30, p. 387. 3 column.
- RARE METALS: Tungsten. By C. Baskerville. E. & M. J., vol. 87, p. 203. 2½ columns.
- Notes on the Occurrence of Tungsten Minerals Near Calabasas, Arizona. By J. M. Hill. U. S. G. S., Bull. 430, p. 164. 3 pages.
- A TUNGSTEN DEPOSIT IN WESTERN ARIZONA. E. & M. J., vol. 90, p. 1103. \(\frac{3}{2}\) column.
- OCCURRENCE OF TUNGSTEN IN RAND DISTRICT, CALIFORNIA. By S. A. Dolbear. E. & M. J, vol. 90, p 904. 42 columns.
- Tungsten Mining in California. E. & M. J., vol. 86, p. 573. 2 columns. I.
- THE TUNGSTEN ORES OF CANADA. E. & M. J, vol. 88, p. 729. 21 col-
- Tungsten and the Moose River Scheelite Veins. By A. A. Hayward. J. M. Soc. N. S., vol. 15, p. 65. 14 pages.
- THE OCCURRENCE OF TUNGSTEN ORE IN CANADA. By T. L Walker. J. C. M. I, vol. 11, p. 367. 4½ pages.
- TUNGSTEN INDUSTRY OF BOULDER COUNTY, COLORADO, IN 1908 By R. D. George. E. & M. J., vol. 87, p. 1055. 2 columns. Map.
- TUNGSTEN IN SAN JUAN COUNTY, COLORADO. By W. C. Prosser. E. & M. J, vol. 90, p. 320. 2 columns. I.
- TUNGSTEN DEPOSITS OF SOUTH DA-KOTA. By F. L. Hess. U. S. G. S., Bull. 380, p. 131. 32 pages. I. 1908
- TUNGSTEN ORE DEPOSITS OF THE CEUR D'ALENE. By H. S. Auerbach. E & M. J., vol. 86, p. 1146. 6½ columns. I.
- TUNGSTEN DEPOSITS IN THE SNAKE RANGE, WHITE PINE COUNTY, EAST-

EEN NEVADA. By F. B Weeks U. S. G. S., Bull. 340, p. 263 7 pages. I. 1907.

STRUCTUBE OF THE TUNGSTEN DE-POSITS OF MOOSE RIVER, NOVA SCOTIA. By E. R. Faribault. J. M. Soc. N S., vol 15, p. 59 6 pages

Tungsten Ore in Washington By A. Wolf M. & M, vol 31, p. 307. 2 columns. Notes on Tungsten Defosits Near Defer Park, Washington. By H. Bancroft. U S. G. S., Bull. 430, p 214. 3 pages. 1909.

Occurrence of Wolframite

NOTE ON A WOLFRAMITE DEPOSIT IN THE WHETSTONE MOUNTAINS, ARI-ZONA. By F. L. Hess. U. S. G. S., Bull. 380, p. 164. 2 pages. 1908.

HANDLING AND STORAGE OF MINERAL

Methods of Handling Mineral and Coal

MATERIAL-HANDLING MACHINERY AND ITS EVOLUTION. By E H. Messiter. Min & Sci. Press, vol 101, p 138. 3\frac{1}{3} columns. D.

MINE CAR CAGING MACHINE M & M., vol. 31, p. 413. 1 column. I.

HANDLING COAL ON THE TIPFLE AT THE CRESCENT MINE NEAR CALI-FORNIA, PENNSYLVANIA. E. & M. J., vol. 89, p. 328. 2 columns. I

See also Preparation of Coal.

An Ore-Handling Plant in New Caledonia. E. & M. J., vol 87, p. 391. 15 columns. I.

EQUIPMENT AND ORE HANDLING AT CORNWALL MINE, PENNSYLVANIA By Q. Bent. E & M. J., vol. 88, p. 725. 5½ columns. I.

HANDLING THREE THOUSAND TONS OF ORE PER DAY AT THE GRANBY MINES AND SMELTER, PHOENIX AND GRAND FORKS, BRITISH COLUMBIA. By A. B. W. Hodges. J. C. M. I., vol. 11, p. 407. 8 pages. I.

See also MINE EQUIPMENT.

Tramming and Mucking

TRAMMING AND MUCKING IN THE ROOSEVELT TUNNEL. M. & M., vol. 29, p. 389. 1 column

THE MUCKING PROBLEM IN TUNNELS. By R. L. Herrick. M. &. M., vol. 30, p. 98. 2 columns. I. See METHODS OF TUNNELING.

TRAMMING AND MUCKING IN THE NEWHOUSE TUNNEL E & M J., vol. 86, p. 758. 7 column.

Mucking in Shaft-Sinking E. & M. J., vol. 85, p. 392. 3 columns.

HANDLING ORE IN GLORY HOLE MINE AT DE LAMAR, NEVADA. E. & M. J., vol. 87, p. 452. ½ column. I See also Open Cut Mining.

HANDLING ORE UNDERGROUND IN THE GLOBE-KELVIN DISTRICT MINES, ARIZONA. E. & M. J., vol. 89, p 813. 1½ columns.

ORE HANDLING AT COPPER QUEEN MINE. By M. C. Milton. M. & M, vol. 30, p. 148. 5\frac{1}{2} columns. I.

UNDERGROUND HANDLING AND TRANSPORT OF ORE. By C. B. Saner and Geo. Carter. P. C. M. & M. Soc. S. A., vol. 5, p. 7. 2 columns.

See also Haulage Systems.

METHODS OF ORE HANDLING AT THE RICHARDSON MINES, GUYSBOROUGH COUNTY, NOVA SCOTIA. By H. S. Badger. J. M. Soc. N. S., vol. 13, p. 83. 18 pages. I.

Handling Ore in the Quincy Mine, Michigan. J. C. M. I, vol. 10, p. 407. 5 pages. I.

HANDLING COAL UNDERGROUND IN THE CAPE BRETON ISLAND MINES J. C. M. I., vol. 13, p. 648. 2 pages. I.

ARRANGEMENT OF PARTINGS IN A COAL MINE: Side Track for Storage

- of Empty and Loaded Cars. By H. J. Nelms. E. & M. J., vol. 90, p. 824. 3 columns. I.
- See also Switches, Turnouts, Etc.
- A COAL-LOADING MACHINE. By W Whaley. M. & M., vol. 31, p. 206 3½ columns. I.
- A MECHANICAL SUBSTITUTE FOR THE SHOVEL IN COAL MINES. By W E. Hamilton. E. & M. J, vol 85, p 814. 7 columns. I.
- See also Cost of Handling and Storing and Cost of Tramming.

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- Loading Barges with Coal. T. I M. E., vol. 36, p. 664. 28 pages I
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- PROFESSIONAL ETHICS FOR THE MIN-INGENGINEER. By J. H. Hammond. E. & M. J., vol. 86, p. 717. 6½ columns.
- MINING ETHICS ON THE RAND. By R. Gascoyne. E & M. J, vol. 90, p. 818. 4½ columns
- THE ETHICS OF THE ENGINEERING PROFESSION. By B B Lawrence Sch. Mines Quart, vol 30, p. 342. 4 pages.
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- Professional Customs: Ethics Min. & Sci. Press, vol. 95, p 489, 62 columns; p. 521, 4 columns; p 551, 42 columns; p. 581, 3 columns; p. 614, 2 columns; p. 646, 4 columns; p. 677, 32 columns; p 739, 63 columns; p. 810, 2 columns.
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- CONTINGENT FEES. Min. & Sci Press, vol. 98, p. 457, 6 columns; p 667, 1½ columns.

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THE FINANCE OF A MINE By M. H. Burnham. Min. Mag., London, vol. 4, p 361, 10½ columns, I.; p. 443, 7½ columns.

REDUCING MINING COSTS AND INCREASING PROFITS. By P Argall. E. & M. J., vol. 90, p. 1251. 5 columns

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Sampling and Ore Buying on the West Coast of Tasmania. By F. D. Power. T. Au I. M E., vol. 3, p. 237. 6 pages.

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VALUATION OF ANTIMONY ORE. E. & M. J., vol. 85, p. 124. 2 columns.

Valuation of Copper in Chile. By L. C. Stackey Min. Mag, London, vol. 3, p. 57. 2\frac{2}{3} columns.

See also COPPER ORES.

VALUE OF GALENA AND BLENDE IN WALES. E. & M. J., vol. 86, p. 709. 1 column.

System of Zinc Ore Buying in Missouri. Min. & Sci. Press, vol. 83, p. 89. # column.

THE PURCHASE OF LEAR ORE IN DERBYSHIRE, ENGLAND. E. & M. J., vol. 88, p 601. 12 columns.

SELLING ZINC ORE ON CONTRACT. By L. L. Wittich. M. & M., vol 31, p. 550. 5½ columns. I. MARKETING ZINC ORES. By W. G. Martin. E & M J, vol. 85, p. 803. 3 columns.

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Min. & Sci. Press, vol. 97, p. 214.
6 columns.

MINING ACCOUNTS. By R N Kirk. T. Au I. M. E., vol. 10, p. 353. 13 pages

MINE ACCOUNTS FOR THE SUPERINTENDENT. By H. Wilson. Min. & Sci. Press, vol. 98, p. 686. 22 columns. Table.

MINE ACCOUNTS FOR THE SUPERINTENDENT By A. Del Mar. Min. & Sci. Press, vol 96, p 454. 6½ columns. D.

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- A FACTORY STOCK AND COST-KEEPING SYSTEM By W. J. Spiro Sch. Mines Quart, vol. 30, p 252 13 pages. D
- KEEPING ACCOUNT OF SUPPLIES By M. W. Alderson. Min. & Sci Press, vol 95, p. 274, 2 columns; p 340, 1²/₄ columns.
- HANDLING MINE SUPPLIES. By H. H Fitch. M & M, vol. 31, p. 267. 10½ columns.
- MINE STORES. By F D Power T. Au. I. M E., vol. 6, p. 124. 100 pages. Supplies Listed

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- A GRAPHIC NOTEBOOK. Administration By F. W Gray M. & M., vol. 31, p. 332. 4½ columns. D
- KEEPING ENGINEERING RECORDS. By E. E Whiteley. M & M., vol. 30, p. 132. 5½ columns. I
- METHOD OF COLLECTING STATISTICS By W Lindgren. Min & Sci Press, vol 96, p. 14. 1 column.

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- Amortization in Mine Finance E. & M. J., vol. 89, p. 403. 2½ columns.
- Depreciation and Reserve Funds for Electrical Properties. By W. B. Jackson. J. W. Soc. E., vol. 15, p. 587. 32 pages.

- A METHOD OF CALCULATING SINKING-FUNDS, AND A TABLE OF VALUES FOR ORDINARY PERIODS AND RATES OF INTEREST By J. B. Dilworth. T. A. I. M. E, vol. 41, p 533, 3 pages, Table; p 912, 1½ pages.
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- VALUE OF MINING STOCK. Min. & Sci Press, vol. 96, p. 699. 2½ columns.
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- THE PSYCHOLOGY OF A "BULL MARKET" E. & M J, vol 87, p. 1247. 1 column.
- MINING IN WALL STREET. Min Mag, vol. 4, p. 370 6 pages.
- New York's Open-Air Stock Market. By W T. Royce E. & M. J., vol 87, p. 356 81 columns. I.

Mine Investment

- INVESTMENTS AND SPECULATIONS.
 Min. Mag, London, vol. 1, p 39,
 8 columns; p 285, 6 columns.
- LEGITIMATE MINING: Its Character. Min Mag., vol. 5, p. 103. 10 pages.
- Is Mining a Legitimate Business?
 Mines as a Means of Investment.
 Min. Mag., vol 10, p 374 2½ pages
- COMPARATIVE MERITS OF COAL MINING INVESTMENTS By F. W. Parsons E. & M. J, vol 90, p. 32. 1 column.
- Coal Mining as an Investment. By H M. Chance. E & M. J., vol. 88, p 316. $5\frac{\pi}{4}$ columns.
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- Valuation of Mining Shares. By Newton B. Knox. Min. & Sci. Press, vol 96, p. 733. 2½ columns, p. 771, 3 columns.
- See also VALUE OF MINES, ETC.
- How to Sell a Mine. E. & M. J., vol. 86, p. 537, 3 columns.
- MINING INVESTORS, MINE OWNERS, MINING ENGINEERS, MINE MANAGERS AND MINERS. By J O James. J. M. Soc N S., vol. 10, p. 170. 4 pages.
- PROTECTING INVESTORS BY EXPOSING MINING FRAUDS. By C. S. Thomas, Jr. E. & M. J., vol. 90, p. 1157. 9½ columns.
- BETTER PROTECTION OF MINE IN-VESTORS. By H. S. Munroe. Min. & Sci. Press, vol 97, p. 600. 7½ columns.
- PROTECTION OF MEXICAN INVESTORS.

 By F. J. H Merrill. Min. & Sci.

 Press, vol. 98, p. 490. 4\frac{1}{2} columns.
- Options in Transaction of Mining. E. & M. J., vol. 86, p 571. 1½ columns.
- "Wash Sales" of Stock. Min. & Sci. Press, vol. 97, p. 442. 1 column.
- See also Definitions and Terms

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- RISK IN MINING: Investment in Mining Properties. Min. & Sci. Press, vol. 100, p. 210 2 columns.
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- See also Salting of Mines.

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- Taxing "Ungotten Minerals" E. & M. J., vol. 88, p. 159 \(\frac{3}{2}\) column.
- Taxation of Mining Properties. By H. W. Turner. Min & Sci. Press, vol. 98, p. 46 1 column.
- MINE TAXES IN CALIFORNIA. E. & M. J., vol. 86, p. 1156 ½ column.
- THE CORPORATION TAX ON MINING COMPANIES. E & M J, vol. 89, p. 254. 1 column.
- MINE TAXES IN MEXICO. E & M. J., vol. 89, p. 417. 1 column.
- DRAWBACK REGULATIONS ON MINERALS. E. & M. J., vol. 87, p. 261. 2 column.
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- See also Claims, Taxes, Assessments, Royalities, Charges, Etc.

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FORMULAS AND TABLES TO FACILI-TATE THE CONSTRUCTION AND USE OF MAPS. By R. S. Woodward. U. S. G. S., Bull 50 124 pages. 1889. THE INTERPRETATION OF TOPO-GRAPHIC MAPS. By R. D Salisbury and W. W. Atwood. U S G. S., Professional Paper 61. 96 pages. I. 1909. MAPS 313

- System of Map-Filing. By G N
 Pfeiffer Min & Sci Press, vol 95,
 p 584. 1½ columns. D.
- See also System of Keeping Mining Notes, Etc.
- Mapotica Geologica America: A
 Catalogue of Geological Maps of
 America By J. Marcou and J. B
 Marcou. U. S. G. S., Bull. 7 184
 pages. 1884.
- MAP OF THE COAL FIELDS OF ILLINOIS. T. A. I. M. E, vol. 40, p. 8. 1 page. I.
- MAPS OF THE ANTHRACITE COAL FIELDS. Coal Mining Supplement, E. & M. J, vol. 88, pp. 8, 9, and 10
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- Assay of Battery Chips and Screens By L. J. Wilmoth. P. C. M. & M Soc S. A, vol 8, p 230, 5 columns; p 343, 4 columns; p 378, 22 columns.
- QUANTITATIVE BLOW-PIPE ASSAY. E & M. J., vol 85, p 1111. 1 column
- ANALYTIC WORK AT COPPER QUEEN SMELTER Min. & Sci Press, vol 101, p 147. 2½ columns.
- COMBINATION ASSAY OF COPPER BUL-LION. By S M Scott M. & M, vol. 31, p. 240. ½ column.
- Sampling and Assaying the Copper Ores of the Ely District By R Marsh. Sch. Mines Quart, vol. 30, p. 91. 6½ pages.
- METHODS OF ASSAYING IN CYANIDE PLANTS. E. & M. J., vol. 88, p 608. 4 columns.
- THE ASSAY OF CYANIDE SOLUTIONS FOR GOLD CONTENT. By W F. Boericke. E & M J., vol 88, p. 525. \$\frac{1}{2}\$ column.
- Assay of Cyanide Precipitate. By F. A. Bird Min. & Sci Press, vol 99, p. 504. 23 columns.
- Assay of Gold and Silver Cyanide Solution. By T P. Holt. Mm. & Sci Press, vol 100, p 863. 12 columns.
- THE ASSAY OF CYANIDE SOLUTIONS AND SLIME RESIDUE CARRYING DISSOLVED GOLD. By A Whitby P. C. M. & M Soc. S A., vol 10, p. 134, 4½ columns; p 289, 1½ columns.
- See also CYANDING GOLD, ETC.
- Assay of Telluride Ores. E & M. J., vol. 85, p. 619. 12 columns.
- COMPARISON OF WET AND CRUCIBLE-FIRE METHODS FOR THE ASSAY OF

- GOLD TELLURIDE ORES, WITH NOTES ON THE ERRORS OCCURRING IN THE OPERATIONS OF FIRE ASSAY AND PARTING By W F. Hillebrand and E. T. Allen. U. S. G S., Bull. 253 31 pages. 1905.
- Assay of Gold Telluride Ore E & M J., vol. 85, p 1304 1½ columns
- BEHAVIOR OF TELLURIUM IN ASSAVING E & M. J, vol 87, p. 1176
 11/2 columns.
- THE BEHAVIOR OF TELLURIUM IN ASSAYING By S W. Smith T. I. M & M, vol. 17, p 463 19½ pages
- THE ASSAY OF TELLURIDE ORES. By G. T. Holloway and E. B Pearse T. I. M & M, vol 17, p. 171 40 pages
- STANDARDIZATION OF BULLION ASSAYS.
 M. & M, vol. 31, p. 690. 1½ columns
- THE INDIAN MINT ASSAY OF SILVER BULLION. By F T. C. Hughes T. I. M & M, vol 17, p. 334 16 pages I.
- THE ASSAY AND VALUATION OF GOLD BULLION. By F P Dewey. T. A I M. E, vol 40, p. 780. 18 pages
- Notes on the Assay of Gold Bullion. By T. K. Rose. P. C. M. & M. Soc. S. A., vol. 6, p. 36, 5 columns; p. 161, 1½ columns; p. 192, 1 column; p. 248, 2 columns.
- WET ASSAY FOR GOLD. M. & M., vol 31, p. 143. ½ column.
- LIQUID ASSAY OF GOLD. By R. De Luce. E & M. J, vol. 89, p 405. 1 column.
- Assaying Stamp Mill By-Products. E & M. J., vol. 87, p. 947. 1½ columns.
- WET GOLD ASSAY. By R. De Luce. Min. & Sci. Press, vol. 100, p. 895. 2 column.
- Assaying for Gold and Silver. Min. & Sci. Press, vol. 22, p. 200. 1½ columns

- THE FIRE AND WET ASSAY OF SILVER ORES. E. & M. J., vol 85, p. 269. 21 columns.
- Assaying Silver Bullion. E. & M. J., vol. 87, p. 942. 11 columns.
- ASSAYING IN THE COUR D'ALENE DISTRICT. E. & M. J., vol. 89, p 876. 2½ columns.
- THE EFFECT OF HIGH LITHARGE IN THE CRUCIBLE ASSAY FOR SILVER BY R. W. Lodge. T. A. I. M E, vol. 38, p. 638. 5½ pages.
- THE FIRE AND WET ASSAY OF SILVER ORES E. & M. J., vol. 85, p. 661. † column.
- Assay of Arsenical Cobalt Silver Ores. By D. K. Bullens. E. & M. J., vol. 90, p. 809. 5² columns D.
- COMMERCIAL WET LEAD ASSAY. P. C M. & M. Soc. S. A, vol. 5, p. 158, 1 column
- Assay of Lead. E. & M J., vol 86, p. 324. ½ column.
- THE ASSAY OF LEAD IN TAILINGS AND SLAGS By E. W Buskett. E & M. J, vol 90, p. 408 13 columns
- EXPERIMENTS IN FIRE ASSAYING AT THE REDJANG LEBONG MINE, SUMATRA By G. B Hogenraad. P. C. M. & M Soc. S. A., vol. 8, p. 73, 10 columns; p. 150, 2 columns; p. 187, 1\frac{3}{2} columns; p. 304, 2\frac{1}{2} columns; p. 380, 3 columns.
- Notes on the Practice of Assaying in British Columbia. By C. S. Baker. J. C M. I., vol. 11, p. 443. 7 pages.
- Assaying Spelter. E. & M. J., vol. 85, p. 812. 2½ columns.
- WET ASSAY OF TIN ORES. By J. J. Beringer. Min Mag., London, vol. 1, p. 231. 3½ columns.
- Assay of Tin Ore. E. & M. J., vol. 85, p. 1112 ½ column.
- Assay of Tin Ores. By G Hohagen. E. & M. J, vol. 85, p. 422. \(\frac{3}{2}\) column.

- WET ASSAY OF TIN ORES P. C. M & M Soc S A, vol. 10, p. 376. 2 columns.
- WET ASSAY FOR VANADIUM ORES. E & M. J., vol. 90, p. 79. ½ column. See also DEFINITIONS AND TERMS See also WEIGHTS AND MEASURES and
- See also Weights and Measures and Concentration

Metallurgy of Copper

- COPPER SMELTING. The Process as Practiced at the Hafod Works, Swansea. Min Mag., vol 10, p. 33. 5 pages
- COPPER SMELTING. By H. M. Howe. U S G. S., Bull. 26. 107 pages. 1885.
- THE MINING AND METALLURGY OF COPPER, SILVER, LEAD AND ZINC. By F. W. Sewell. T. Au I M. E., vol. 12, p 105. 26 pages I. D.
- LABORATORY ROUTINE IN MODERN COPPER SMELTERS By H. T. Waller T. I M & M, vol. 18, p. 37. 22 pages.
- COPPER IN CHLORIDE SOLUTIONS. By G Fernekes Min. & Sci. Press, vol. 95, p. 592. 2½ columns.
- MOISTURE IN COPPER BULLION. By D. M. Liddell. E. & M J., vol. 90, p 1095. 3½ columns.
- THE BEHAVIOR OF COPPER-SLAGS IN THE ELECTRIC FURNACE By L. T. Wright. T. A. I. M. E., vol. 41, p 316. 1½ pages.
- THE GREENAWALT ELECTROLYTIC PROCESS. By W. E Greenawalt. E. & M. J., vol. 90, p. 1062. 123 columns. I.
- SECTIONAL SLAG POT. By E C. Ruder. M. & M., vol. 31, p. 149. \(\frac{3}{2}\) column I.
- THE KILKER MATTE TAPPING CAR. By F. T Havard. E. & M J., vol. 87, p. 1294 3 columns. I.
- SLAG CAR USED AT THE CANANEA SMELTING WORKS By C F Shelby. E. & M. J., vol 87, p. 204. 3 columns. I.

- A MATTE-SEPARATING FOREHEARTH. By E Jacobs E. & M. J, vol 87, p 1232. 2 columns. I
- MATTE SMELITING AT DENVER BY H F Bain Min. & Sci Press, vol 100, p. 250 8 columns I.
- KELLEY SLAG AND MATTE CASTING MACHINE By F. G. Kelley E. & M J, vol 86, p 610. 4 columns I.
- MATTE SMELTING AT INGOT, CALIFORNIA By W. B. Bretherton. E & M J, vol. 85, p. 443 6 columns. I.
- METHOD OF HANDLING MATTE AT SELBY, CALIFORNIA By J. C Bennett. E. & M. J., vol. 85, p 252. 4 columns I
- THE CONSTITUTION OF COPPER-IRON AND COPPER-LEAD-IRON MATTES. By C A Fulton and I E. Goodner. T. A. I M E., vol 39, p. 584. 35½ pages I.
- THE PRODUCTION OF CONVERTER-MATTE FROM COPPER-CONCEN-TRATES BY POT-ROASTING AND SMELTING By E A Packard T. A I. M E., vol. 38, p 633. 41 pages.
- THE CONSTITUTION OF MATTES PRODUCED IN COPPER-SMELITING. DIscussion of A. Gibb's and R. C. Philp's Paper. T. A. I. M. E, vol 38, p. 913. 2½ pages.
- SINTERING OF COPPER ORES By W. G. Perkins Min. Mag., London, vol 2, p. 209. 6½ columns.
- SINTERING OF COPPER ORES IN SPAIN.

 By H F. Collins. Min. Mag.,
 London, vol. 1, p 52. 6 columns I.
- METAL LOSSES WITH ORE OF LOW COPPER CONTENT By C. A. Heberlein E. & M. J., vol. 89, p. 617. 2½ columns.
- METAL LOSSES IN COFFER SLAGS. By N. M. Zoph Min. & Sci. Press, vol. 100, p. 261. 2 columns.
- METAL LOSSES IN COPPER SLAGS. By L. T Wright. T. A I M. E., vol. 40, p 492. 4 pages. D.

- NOTES ON THE METAL LOSSES IN COPPER SLAGS. By C. A. Grabill. E & M J., vol. 89, p. 776. 9½ columns. D
- ALLOYS OF COPPER: German Silver, Bronze Ordnance, or Common Metal—Bell Metal Min Mag, vol 10, p 197. 16 pages.
- COPPER FOR THE FOUNDRY. By F L. Antisell E. & M. J., vol. 86, p. 225 3 columns.
- THE INFLUENCE OF BISMUTH ON WIRE-BAR COPPER. By H. N. Lawrie. T. A I. M E., vol 40, p 604. 10 pages. I.
- THE INFLUENCE OF BISMUTH ON WIRE BAR COPPER By H. N. Lawrie T A I M. E, vol. 40, p. 604 10 pages I.
- THE CONSTITUTION OF FERRO-CUPROUS SULPHIDES By H O. Hofman, W. S. Caypless and E. E. Harrington. T. A. I. M. E., vol. 36, p. 142 12 pages. I
- The Neill Process at Coconino, Arizona By J. W. Neill E. & M. J., vol 85, p 556 2½ columns
- THE NEILL PROCESS AT COCONINO, ARIZONA: Leaching with Sulphur Dioxide E & M. J., vol. 85, p. 152 1½ columns
- THE JUMAN COPPER LEACHING PROC-ESS E. & M J., vol. 86, p 132. 1½ columns
- COPPER LEACHING PLANT IN THE URAL MOUNTAINS. By A L Simon. T. I M. & M., vol 19, p 212, 30 pages, I; p. 244, 18 pages
- PRECIPITATION OF COPPER FROM BUTTE MINE WATER. By C J Stose E. & M. J., vol. 87, p 953 52 columns. I.
- COPPER LEACHING IN THE URAL MOUNTAINS. E. & M J., vol 89, p 461 1 d columns
- PRECIPITATION OF COPPER FROM CU-PIFEROUS WATERS. By F. H. Probert. Min. & Sci. Press, vol. 96, p. 27. 5\frac{1}{2} columns. I.

- A COPPER PRECIPITATING PLANT BY H W. Chittenden. E. & M J, vol. 86, p. 853. 4½ columns.
- THE OUTLOOK FOR HYDROMETAL-LURGY OF COPPER. By W. E Greenawalt. E & M. J, vol 90, p. 960. 9 columns
- CONSTRUCTION OF 100-TON COPPER SMELTING PLANT. By C C. Christensen E & M. J, vol 86, p 847. 10½ columns
- THE WASHOE REDUCTION WORKS M. & M., vol 30, p. 520. 6½ columns. I.
- THE GREAT COBAR SMELTING WORKS. E. & M. J., vol 85, p. 950. 15\frac{3}{2} columns I
- WALLEROO AND MOONTA COPPER MINES AND SMELTERY By G. W. Williams. E & M. J, vol 88, p. 54 14½ columns I
- SMELTING WORKS OF TEZINTLAN COPPER COMPANY. By A. van Zwaluwenburg. E. & M. J., vol. 90, p. 169 10 columns. I
- COPPER SMELTING IN SIBERIA. By W. A. Heywood Min & Sci. Press, vol. 97, p. 59. 1 column.
- COPPER SMELTING IN THE ARGENTINE
 By C. H Jones Min Mag., London, vol. 1, p. 123. 12½ columns. I.
- COPPER SMELTING IN QUEENSLAND, AUSTRALIA. E. & M. J., vol 87, p. 605. 2 columns
- THE SMELTER OF THE MAMMOTH COPPER MINING COMPANY, AT KENNETT, CALIFORNIA. By D. F. Campbell. Min. & Sci. Press, vol. 96, p. 30. 3½ columns. I.
- SMELITING COPPER ORES IN SHASTA COUNTY, CALLFORNIA E & M J, vol. 88, p. 396. 6 columns. I.
- THE GRANBY SMELTER EQUIPMENT. By B L. Sackett M. & M., vol. 30, p. 524. 82 columns. I.
- THE GRANBY SMELTER. By R. Keffer. Mm. & Sci. Press, vol. 98, p 256. 3½ columns. I
- RECENT DEVELOPMENTS AT THE GRANBY SMELTER. By F. E. Lathe.

- J. C M I., vol. 13, p 273. 15 pages. I.
- CANANEA ORE-BEDDING SYSTEM. By R. L. Herrick. M. & M., vol. 30, p. 65 9½ columns. I.
- Cananea Furnace Practice. By C. De Kalb. Min & Sci. Press, vol. 101, p. 9. 6½ columns. I.
- COPPER-GOLD SMELTING AT MAGISTRAL, MEXICO. By R. Linton Min. & Sci Press, vol 97, p. 843. 62 columns. I.
- THE DOUGLAS COPPER SMELTER AT FUNDICION, MEXICO. By P. E. Barbour E & M J, vol. 85, p. 303. 9 columns I.
- Douglas Smelting Works, Fundicion, Sonora. By W. P. Tucker. E. & M. J, vol. 86, p. 413. 4½ columns I.
- PRESENT CONDITION OF THE GARFIELD SMELTING WORKS. By L. S. Austin. Min. & Sci. Press, vol. 99, p. 590. 2\frac{2}{3} columns.
- SMELTING PLANT OF THE BUTTE REDUCTION WORKS By A. H. Wethey. E. & M. J, vol 88, p. 1153. 7 columns. I.
- THE SMELTERS AT ANACONDA. By E. P. Mathewson. E. & M. J., vol 86, p. 130. 2 columns
- THE TAXILMA SMELTER, OREGON. By Geo. Crevar. E. & M. J, vol. 85, p. 365. 1½ columns.
- MINING AND SMELTING AT CERRO DE PASCO, PERU. By C C. Sample. E. & M. J, vol 85, p 206. 12 columns. I.
- SMELTING AT CERRO DE PASCO, PERU.

 By L. W. Strauss. Min. & Sci.

 Press, vol. 97, p 637. 15\frac{1}{2} columns. I.
- SMELITING WORKS AT RIO BLANCO, PERU. Min. & Sci. Press, vol 97, p 465. 2 columns. I.
- SMELITING AT NISHNI TAGIL IN THE URAL MOUNTAINS By F. W. Draper. E. & M. J, vol 90, p. 610. 9 columns.

- COPPER SMELTING IN TENNESSEE By J. P. Channing. Min & Sci. Press, vol 96, p. 97 1½ columns.
- MINING AND SMELTING IN THE DUCK-TOWN DISTRICT By E. Higgins. E. & M J., vol 86, p 1237 121 columns I
- Notes on the Metallurgy at Copperhill, Tennessee By G A. Guess E & M. J, vol. 90, p. 866. 21 columns.
- THE TINTIC SMELTER By L A. Palmer M. & M., vol. 29, p. 535. 37 columns I.
- THE TYPE SMELTER. By R. L. Phelps. Min & Sci. Press, vol 95, p. 782. 3½ columns. I
- SMELTING PRACTICE OF THE TYEE COPPER COMPANY. By G. W Maynard. E. & M J, vol 88, p. 905. 11½ columns. I.
- YAMPA SMELTER, BINGHAM, UTAH. By L A Palmer Min & Sci Press, vol 99, p. 225. 63 columns I
- THE YAMPA SMELTER AT BINGHAM, UTAH. By L. A Palmer. M. & M., vol 31, p. 14. 8½ columns I
- THE INTERNATIONAL SMELTERY AT TOOELE, UTAH. E. & M J, vol 90, p. 1059. 6½ columns. I.
- THE NEW INTERNATIONAL SMELTERY AT TOOELE, UTAH. By J. Tyssowski. E. & M. J., vol. 89, p. 865. 7 columns. I.
- THE TOORLE SMELTER. By C. M. McGregory. M & M, vol. 31, p. 321. 5½ columns. I
- Notes on Copper Smelting in the West. By E. D. Peters. E & M. J, vol. 88, p. 735. 4 columns.
- See also Concentration, and the Copper Trade, also Cost of Metal-Lurgical Treatment.

Blast Furnace Smelting of Copper

PRACTICAL BLAST FURNACE MANAGE-MENT By Randolph Bolling. E. & M. J., vol. 85, p. 989. 8 columns. I.

- BLAST FURNACE PROGRESS. By J. Birkinbine. U S G S, Mineral Resources, 1883 and 1884, vol. 14.
- A BLAST FURNACE OF OVAL SECTION. E. & M J, vol 87, p 853 3½ columns. I.
- Some Modifications in Blast Furnace Construction By J Kennedy. P. E. Soc. W. Pa, vol. 23, p. 1. 14 pages. I
- BLAST FURNACE STOCK-HANDLING AND CHARGING APPARATUS By W. H. Graham J. M Soc N. S, vol. 15, p. 107 4 pages. I.
- On the Use of Raw Coal in Blast Furnaces Min. Mag., vol 8, p 1.
- Tops of Copper Blast Furnaces. By N H. Emmons. T. A. I. M. E., vol 41, p. 723. 10 pages I.
- CIRCULAR COPPER BLAST FURNACES. By T E. Lambert. M & M., vol. 31, p 20. 6½ columns. I.
- ALUMINA IN COPPER BLAST FURNACE SLAGS. E & M. J., vol. 86, p 1262. 5 columns.
- ROLE OF ALUMINA IN COPPER BLAST FURNACE SLAGS By L G Smith. E. & M J., vol 90, p 1260 5½ columns.
- NEW COPPER BLAST FURNACES AT TEZINTLAN SMELTERY. By C. Robinson E. & M J, vol 88, p. 655 4 columns I.
- THE CHARGING OF BLAST FURNACES. By E. H. Messiter. Min. & Sci. Press, vol. 95, p. 528. 8½ columns I
- BLAST FURNACES IN THE GRANBY SMELTER. M. & M, vol 30, p 525. 2 columns. I.
- BLAST FURNACES AT THE YAMPA SMELTER, BINGHAM, UTAH. M. & M., vol 31, p 16. 2½ columns.
- THE CANANDA BLAST FURNACE By C. F. Shelby. E. & M. J, vol 85, p. 841. 16 columns. I.
- COPPER BLAST FURNACE SMELTING AT ANACONDA By C. Offerhaus. E. & M J., vol. 88, p. 243. 19 columns. I.

- THE CORROSION OF WATER-JACKETS OF COPPER BLAST FURNACES. By G. B. Lee T. A. I. M. E., vol. 38, p. 877 9 pages
- THE CORROSION OF WATER-JACKETS OF COPPER BLAST FURNACES: Discussion on the paper of G B. Lee. Trans, vol 388, p 877

T. A I. M E, vol 39, p 806. 10 pages

See also Metallurgy of Copper

Pyritic Smelting of Copper

- THE DEVELOPMENT OF PYRITIC SMELT-ING. By R C Sticht T Au I. M. E., vol 11, p. 1 70 pages.
- PYRITE SMELTING AND SULPHURIC ACID MANUFACTURE By F. J. Felding and J P. Channing. E. & M J, vol 90, p 555. 10½ columns D
- NEGATIVE RESULTS IN PYRITIC SMELTING E. & M J, vol 85, p 325 4 columns; p 373, $4\frac{1}{2}$ columns.
- PYRITE SMELTING BY KUNDSEN

 METHOD IN NORWAY By E Kundsen .E & M. J., vol 87, p. 1080.

 11½ columns I
- KUNDSEN PROCESS OF PYRITIC CON-VERTER SMELTING. By O Bergstrom. Min & Sci Press, vol. 98, p 858 2½ columns.
- Notes and Comments on the Pyritic Process of Mount Lybll, Tasmania By R Nicholls P. C. M & M. Soc S. A, vol 7, p. 135, 8 columns, p 214, 4 columns; p. 290, 5 columns.
- Pyritic Smeliting in Leadville. By C. H. Doolittle and R. P. Jarvis. T. A. I. M. E., vol. 41, p. 709. 14 pages
- Peritic Smeliting in Tilit Cove, Newfoundland. By F S. Nicholls. E. & M. J., vol. 86, p. 462 42 columns. I.

Reverberatory Smelting of Copper

REVERBERATORY VS. BLAST FURNACES. By H. P. Collins. E & M. J., vol. 89, p. 619. 2 columns.

- REVERBERATORY COPPER SMELTING. By E B Wilson. M. & M., vol 31, p. 557. 8\frac{3}{2} columns I
- REGENERATIVE REVERBERATORY COPPER FURNACE. By F. A. Leas. E. & M J., vol 86, p 898 8 columns I.
- THEORETICAL NOTES ON REVERBERATORY FURNACES By C. A Grabill. E & M. J., vol 89, p. 826 8½ columns
- REVERBERATORY FURNACE PRACTICE. By W A Heywood E & M. J., vol 89, p 407. 1½ columns
- RECENT REVERBERATORY SMELTING PRACTICE By R R Moore E & M J., vol 89, p 1021, 10½ columns; p 1063, 7½ columns.
- REVERBERATORY FURNACE SMELTING OF ORES By T. J. Dyson T Au. I M E, vol 5, p 71 4½ pages.
- MAGNETIC OXIDE IN MATTE. By E. L. Larison. E & M J., vol. 87, p. 1195 3 columns
- SMELTING COPPER IN SMALL REVERBERATORY FURNACES. By E. M. Clark Min & Sci Press, vol. 100, p 579 7 columns I
- OIL-FIRED REVERBERATORY FURNACES By R L Herrick. M & M., vol. 30, p. 367. 4 columns. I.
- BURNING REVERBERATORY ASH AT THE STEPTOE PLANT By L. Duncan E & M. J., vol 90, p. 1302. 2 columns.
- MODERN REVERBERATORY SMELTING OF COPPER ORE. By C Offerhaus. E. & M J., vol. 85, p 1189, 7 columns, I, p 1234, 12 columns, I.
- REVERBERATORY FURNACES AT BING-HAM, UTAH, IN THE YAMPA SMELTER. M. & M., vol. 31, p. 15. 2 columns. I
- EXPERIMENTS IN REVERBERATORY
 PRACTICE AT CANANEA, MEXICO By
 L. D. Ricketts. T. I. M. & M.,
 vol 19, p 147. 39 pages I
- EXPERIMENTS IN REVERBERATORY
 PRACTICE, CANANEA. By L. D.
 Ricketts. E. & M. J., vol. 89, p.
 314. 15 columns. I.

REVERBERATORY PRACTICE AT CERRO DE PASCO. E. & M. J., vol. 89, p. 959. 2½ columns.

Bessemerizing of Copper Matte

- Successive Stages in Flame of Copper Converter By D. M. Levy E & M. J., vol. 90, p. 1207. 4 columns.
- OPERATION OF AN ANACONDA COPPER CONVERTER. By C. Offerhaus. E. & M. J, vol. 86, p. 747. 17½ columns. I
- THE BEHAVIOR OF COPPER-MATTE AND COPPER-NICKEL MATTE IN THE BESSEMER CONVERTER By D. H. Browne T. A I. M. E, vol. 41, p 296 20½ pages. D
- COOLING COPPER CONVERTER SLAGS, By F C Kelley. M. & M, vol. 29 p 78 2 columns I.
- COPPER CONVERTERS, HYDRAULICALLY OPERATED By G. B Shipley. Min & Sci Press, vol 95, p 375. 4 columns /
- MOVABLE CONVERTER HOODS. By A. H. Wethey. E. & M J, vol. 85, p 100 4 columns. I
- THE LAIST AND TANNER MOVABLE
 CONVERTER HOOD. By L. S Austin. Min & Sci Press, vol 95,
 p 400. 2 columns. I
- COPPER CONVERTER FLAMES. By D. M Levy. M. & M, vol 31, p. 719. 24 columns.
- RECENT PRACTICE IN COPPER MATTE CONVERTING. By R. R. Moore. E. & M. J., vol. 90, p. 460. 16 columns I.
- THE TREATMENT OF OVERBLOWN CHARGES IN COPPER CONVERTERS. By A. R. McKenzie. E. & M. J., vol 90, p 1147. 2½ columns.
- MODERN TYPE OF THE BARREL COPPER CONVERTER. By C. F. Shelby. E. & M. J, vol 88, p. 815. 5 columns. I.
- The Vortex Copper Converter. By H. Haas. E & M. J, vol. 89, p. 972. 61 columns. I.

- Basic Lined Converters for Leady Copper Mattes By R. R. Moore. E. & M. J., vol. 90, p. 263. 5 columns
- RECENT PATENTS FOR BASIC-LINED COPPER CONVERTERS. By R. H. Vail. E. & M J., vol. 89, p. 563. 62 columns. I
- COPPER CONVERTERS WITH BASIC LINING. By R. R. Moore. E. & M. J., vol 89, p. 1317. 11 columns. A Machine for Casting Converter
- A MACHINE FOR CASTING CONVERTER COPPER. By J H. Klepinger E. & M. J, vol 85, p 903 5 columns I.
- RELATIVE ELIMINATION OF IRON, SUI-PHUR, AND ARSENIC IN BESSEM-ERIZING COPPER-MATTES By E. P Mathewson. T A. I. M. E., vol. 38, p 154. 6 pages.

Refining of Copper

- ELECTROLYTIC COPPER REFINERY.

 Min & Sci. Press, vol. 101, p. 75.

 1½ columns.
- ELECTROLYTIC REFINING OF COPPER.

 By G H. Blakemore. M & M,
 vol. 30, p. 648. 8\frac{2}{3} columns I.
- ELECTROLYTIC REFINING OF COPPER. By G. H Blakemore. M. & M., vol 30, p 746 9½ columns. I.
- A STUDY IN REFINING AND OVERPOLING ELECTROLYTIC COPPER. By H. O. Hofman, R. Hayden, and H. B. Hallowell. T. A I. M E, vol 38, p 171. 24 pages I.
- ELECTROLYTIC COPPER REFINING IN AUSTRALIA. By G H. Blackmore. E. & M J., vol 90, p 717, 103 columns, I.; p 769, 6 columns.
- An Australian Electrolytic Corper Refinery. By R. G. Casey, Jr. E & M. J, vol. 90, p. 1111. 11½ columns. I.
- Effect of Temperature on the Electrolysis of Copper. E. & M. J., vol 86, p 755. 2 columns
- See also Cost of Metallurgical Treatment.

Electro-Metallurgy

- ELECTRIC SMELTING OF ORE AT HEROULT, CALIFORNIA. By J. Tyssowski. E. & M J., vol. 90, p. 269. 84 columns. I
- ELECTRIC SMELTING WITH THE GIROD FURNACE. By W. Borchers. E. & M. J., vol. 88, p. 1113. 13½ columns. I.
- ELECTRIC SMELTING IN SWEDEN. By E. J. Ljungberg. M. & M, vol. 30, p. 288. 24 columns. I
- ELECTRIC SMELTING By G. H. Clavenger U. S. G. S, Mineral Resources, 1905 12 pages
- THE ELECTRIC FURNACE: Its Place in Siderurgy. By P. McNiven Bennie. P. E. Soc W. Pa., vol. 26, p. 487 45 pages. I.
- THE POSITION OF THE ELECTRIC FURNACE By P. McN. Bennie E. & M J, vol 88, p. 84. 12 columns.
- ELECTROLYSIS IN METALLURGY OF COPPER, LEAD, ZINC, AND OTHER METALS. By C. O Mailloux. U. S. G. S., Mineral Resources, 1882, vol. 17. 32 pages.
- THE STASSANO ELECTRIC FURNACE. By F. C. Perkins. M. & M., vol. 29, p. 277. 2 columns. I.
- RECENT IMPROVEMENTS IN ELECTRO-LYTIC CELLS. By H S. Renaud. E. & M J., vol 85, p. 405 3½ columns. I.
- NEW RESISTANCE AND INDUCTION FURNACES. By A. Gradenwitz. E. & M. J., vol 87, p 364. 3½ columns. I.
- See also Cost of Metallurgical Treatment.

Glass Making

- HISTORY OF GLASS MAKING. By G. A. Macbeth P. E. Soc W. Pa., vol. 23, p. 625 21 pages D
- QUESTIONS ARISING IN THE MAKING OF GLASS. By R. L Frink. P E Soc. W. Pa., vol 23, p. 646. 10 pages I.

- GLASS MAKING. Min. & Sci. Press, vol. 20, p. 57. 2 columns.
- See also Occurrence of Glass Sands.

Metallurgy of Gold and Silver

- PREPARATION OF THE ORES OF SILVER-LEAD, AND COPPER, AND THEIR METALLURGICAL TREATMENT AT THE WORKS AT LOZÈRE, FRANCE By M. Lau Min. Mag, vol 7, p 219, 11½ pages; p. 470, 6 pages
- THE METALLURGICAL TREATMENT OF THE SULPHO TELLURIDE ORES OF KALGOORLIE, WITH SPECIAL REFERENCE TO EXPERIMENTS CONDUCTED AND SULPHIDE MILL ERECTED ON THE ASSOCIATED GOLD MINES OF WESTERN AUSTRALIA, LIMITED. By L. W. Grayson T. Au I. M E., vol 7, p. 170, 20 pages; vol. 8, pt. 1, p. 114, 13 pages
- EXTRACTION OF GOLD BY HYPOSUL-PHITE OF SODIUM, AND ROASTING ORE FOR CYANDING By E. Janitzky. T. Au I. M. E, vol. 7, p. 99. 3 pages.
- THE SOLUBILITY OF GOLD IN THIO-SULPHATES AND THIOCYANATES. By H. A. White. P. C. M. & M, Soc. S. A., vol 6, p. 109, 4½ columns; p. 197, 1 column; p 225, 2 columns; p. 274, 1½ columns
- ON THE LIXIVIATION OF AN AURIFER-OUS ARSENOPYRITE CONCENTRATE. By T. T Fulton J M Soc. N. S, vol. 10, p 97. 27½ pages D.
- THIOCARBANIDE: A New Solvent for Gold By J. Moir. P. C. M. & M. Soc. S. A., vol 6, p 332. 9 columns.
- HYDROMETALLURGY OF COBALT ORES. By E B Wilson M. & M., vol. 31, p. 303. 9 columns. I.
- See also Cyanding Gold, Etc., Metallurgy of Lead, and Cost of Metallurgical Treatment.

Smelting Gold and Silver

- BLAST FURNACE GASES IN SILVER-LEAD SMELTING. By L S. Austin. Min. & Sci Press, vol 97, p 364. 17 column.
- HEAT OF FUSION OF SILVER-LEAD BLAST FURNACE SLAG. By L. S. Austin. Mm. & Sci. Press, vol. 96, p. 567. ½ column.
- CALCULATION OF A SILVER-LEAD BLAST FURNACE CHARGE. By J A. Barr. Min. & Sci Press, vol. 101, p. 672, 3 columns; p. 710, 3 columns.
- SILVEB-LEAD SMELTING IN TASMANIA. By T. Kapp. E & M. J, vol. 89, p. 727. 3½ columns.
- SILVER-LEAD SMELTING PRACTICE. By L S Austin. Min. & Sci. Press, vol. 95, p. 59 1½ columns.
- SILVER-LEAD SMELTING AT EAST HELENA, MONTANA E. & M. J., vol. 87, p 350 1 column.
- SMELTER OF PENOLES COMPANY, MA-PIMI, MEXICO. By C. T Rice E. & M. J., vol. 86, p, 373. 6 columns. I
- MODERN SILVER-LEAD SMELTING AT LAURIUM, GREECE By H. F. Collins E. & M. J, vol. 87, p 881. 8½ columns I
- See also THE METALLURGY OF LEAD.
- CHANCELLORSVILLE GOLD AND SILVER ORE REDUCTION COMPANY. Min. Mag., vol. 9, p 451. 4 pages.
- METALLURGICAL CONDITIONS AT COBALT, ONTARIO, CANADA, 1908 By F N. Flynn. J. C. M. I., vol 11, p. 293. 42 pages.
- THE SMELTING OF COBALT ORES. By H. W. Hixon. J C M. I, vol 10, p 74. 2½ pages.
- THE REDUCTION OF AURIFEROUS ORES. By C. F. Stansbury. Min. Mag., vol. 2, p. 239. 5½ pages.
- METALLURGY OF THE KALGOORLIE GOLDFIELD. By G. W. Williams. E. & M. J., vol. 85, p. 345. 11 columns. I.

THE PEARCE GOLD-SEPARATION PROC-ESS. By H. V. Pearce. T A. I M. E., vol. 39, p 722 12 pages.

Cyaniding, Processes, Theory, Etc.

- THE ACTION OF CYANIDE OF POTASSIUM ON GOLD AND SOME OTHER METALS AND MINERALS. By G. A. Goyder. T. Au I M. E., vol. 1, p. 84. 15 pages. I.
- THEORY OF THE DISSOLUTION OF METALS BY CYANIDE. By J. B. Stuart. Min. & Sci. Press, vol. 101, p. 180. 2½ columns
- CYANIDATION OF ORE CONTAINING BOTH COARSE AND FINE GOLD. Min. & Sci Press, vol. 95, p. 709, 2½ columns; p. 742, 1 column; p. 775, 2½ columns
- Tests on Acid Regeneration 'of Cyanide Solutions By R. P. Wheelock. Min & Sci. Press, vol. 99, p. 814. 10 columns. I
- Table for Standardizing Sump So-LUTIONS. By C. W. Hess. Min. & Sci. Press, vol 101, p. 445. Table.
- THE DETERMINATION OF CONSTANTS IN WORKING CYANIDE SOLUTIONS. By G W Williams P. C M. & M. Soc. S. A, vol. 5, p 13, 7½ columns; p. 54, 7½ columns
- RAPID ESTIMATION OF PULP IN CYA-NIDE TANKS. By M. R. Lamb. E. & M. J., vol. 89, p. 160. 2 columns.
- SPECIFIC GRAVITY ESTIMATION OF PULP. By F. B. Hyder. M & M., vol 31, p. 715. 37 columns D.
- CARBON AND CELLULOSE IN CYANIDE SOLUTIONS. By A J Clark and W. J. Sharwood. Min. & Sci. Press, vol. 100, p. 554. 5 columns
- GRAPHITE: An Obstacle to Good Cyaniding. By M. W. Von Bernewitz. Min. & Sci Press, vol. 99, p. 758. 22 columns. I.
- Two Deterrents to the Dissorution of Free Gold in the Cyande Process By D. Simpson. T. I. M. & M., vol. 17, p. 330. 1 page.

- CYANIDATION OF RAW PYRITIC CON-CENTRATES P. C. M. & M. Soc. S. A., vol. 7, p. 422 \(\frac{3}{4}\) column.
- CYANIDATION OF SULPHIDES. By M. N. Colman. Min & Sci. Press, vol. 101, p 308. 3 columns.
- RECOVERY OF ZINC FROM SOLUTIONS.

 M. & M, vol. 30, p. 378 13 columns
- THE LABORATORY IN ITS RELATION TO THE CYANIDE PROCESS. By G. A. Byrn. T. Au. I. M. E., vol. 4, p. 173. 13½ pages.
- THE ELIMINATION OF GOLD BEARING SOLUTION FROM SANDS. By W A. Caldecott and A. McA. Johnston. P. C. M. & M. Soc. S. A., vol 8, p. 153. 12 columns. I.
- OXIDATION AND CYANIDATION. By H. A. Megraw. E. & M. J, vol 88, p. 645. 4½ columns. D.
- THE DESTRUCTION OF CYANDE. By J. Moir. P. C. M & M Soc. S. A, vol. 10, p. 433. 32½ columns D.
- CHEMISTRY OF THE BROMO-CYANOGEN PROCESS. By S. H. Warrell. Min & Sci. Press, vol. 98, p. 356. 2\frac{1}{2} columns.
- See also CHEMICAL ANALYSIS IN CYANIDING
- Bromo-Cyanding of Gold Ores, By E. W. Nardin. Mm. & Sci Press, vol. 97, p. 562. 5½ columns
- Bromo-Cyaniding of Gold Ores By E. W. Nardin. T. Au. I. M. E, vol 12, p. 69. 10 pages.
- ACTION OF ALKALINE SOLUTIONS IN CYANIDING. P. C. M. & M. Soc. S. A., vol. 8, p. 281. 2½ columns.
- Lime Reaction in Cyaniding. By T.P. Holt. M. & M., vol 31, p. 475 12 columns
- Notes on the Estimation of Caustic Lines. By E. H. Croghan P C. M. & M. Soc. S. A., vol. 8, p. 37, 11 columns; p. 84, 1½ columns; p. 122, 11 columns; p. 145, ½ column; p. 183, 8 columns; p. 206, 6 columns.

- LABORATORY TESTS ON THE USE OF COARSE AND FINE LIME FOR CYA-NIDING By W. J. Sharwood P C M. & M, Soc S A, vol 8, p. 293. 9½ columns. D
- AUTOMATIC ZINC DUST FEEDER. By J S Colbath E. & M. J, vol 89, p 453. 2 columns I
- A Novel Washing and Leaching Apparatus. By A. Gradenwitz E & M. J., vol 86, p 227 2 columns I.
- New Cyanide Device. By L. Fraser. Min. & Sci Press, vol 101, p 504 2½ columns. I.
- A CHEAP FORM OF CYANIDE PLANT. By C Hunter. T I M & M, vol. 17, p. 268. 8 pages
- HOME-MADE CYANIDE PLANT By W. F Boericke and B L Eastman. Mm. & Sci. Press, vol. 97, p 712. 1½ columns.
- A ROTARY EXTRACTOR FOR PRECIOUS METALS FROM SOLUTIONS. By W. D'Arey and E. T. Rand. P. C. M. & M., Soc. S A, vol 10, p. 201 6 columns. I.
- THE KIDNEY PULP DISTRIBUTOR BY C T Rice E & M J, vol 90, p. 1046 3½ columns. I
- CYANIDATION WITH THE BROWN VAT. By F. Narvaez Min. & Sci. Press, vol 95, p 689. 12 columns I.
- A Modification of Pachuca-Tank Practice. By A. J. Yager. Min. & Sci Press, vol. 101, p. 539 2 columns. I.
- CONTINUOUS AGITATION SYSTEM AT ESPERANZA. By M. A. Kuryla E & M. J., vol. 90, p. 213. 3\frac{2}{3} columns. I.
- ARRLIFT AGRITATION IN CYANIDING P. C. M. & M. Soc. S A, vol 8, p 358. 1³/₂ columns.
- Notes on Air Agitation By M. R. Lamb E & M. J, vol. 86, p. 901 3 columns.
- AGITATION BY COMPRESSED AIR BY F C Brown Min. & Sci Press, vol. 97, p. 424 62 columns I

- Assisting the Solution of Gold in the Cyanide Process by Compressed Air By A. F. Crosse P. C. M. & M. Soc. S. A., vol. 8, p. 36. 1 column
- See also Compressed Air in Mining.
- CYANIDE LIXIVIATION BY AGITATION By W M. Brodie. E. & M J, vol 87, p. 695. 3½ columns I.
- A NEW METHOD OF AGITATING CYANIDE PULPS. By E G. Spilsbury E. & M. J, vol. 89, p. 662. 3 columns
- METHODS OF PULP AGITATION BY L M Kniffen Min & Sci Press, vol 100, p. 824. 2\frac{1}{2} columns
- AGITATOR FOR CYANIDE TESTS. By G. H. Clevenger. Min. & Sci Press, vol. 98, p. 759. 1 column. I
- Brown Type of Laboratory Agrator By T. S. Lawlor. Min. & Sci Press, vol. 99, p. 197. 2½ columns. I.
- COMBINED AGITATOR AND VACUUM-FILTER FOR CYANIDING Min. & Sci. Press, vol. 96, p. 459. 1 column. I.
- PRESENT TENDENCIES IN CYANIDE PRACTICE. By M R. Lamb E. & M. J, vol. 90, p 855 11\frac{3}{4} columns.
- PROGRESS IN CYANIDATION IN 1909. By A. James. Min & Sci. Press, vol 98, p 47. 13 columns I
- IMPROVEMENTS IN THE CYANIDE PROCESS. By B. MacDonald Mm. & Sci. Press, vol. 100, p. 798. 4 columns. I.
- CYANIDE PRACTICE By A James. Min & Sci. Press, vol 100, p. 41. 12 columns. I
- PROPOSED SIMPLIFICATION OF THE CYANIDE PROCESS. By B Micrisch. E & M J., vol 89, p. 1327. 4 columns. I.
- PROGRESS AND DEVELOPMENTS IN CYANIDE PRACTICE. By M. R. Lamb. E & M. J, vol. 89, p. 178. 5 columns.

- HISTORY OF CYANIDATION By P Argall. Min & Sci. Press, vol. 95, p. 655, 5½ columns; p 682, 6½ columns.
- PROGRESS IN CYANIDATION. By A. James E & M J, vol 87, p. 1194. 3 columns
- Notes on Cyanidation By L. D. Bishop. E & M. J, vol. 87, p 842. 62 columns I.
- IMPROVEMENT IN CYANIDE PRACTICE. By E G. Spilsbury. T. A I. M E., vol. 41, p. 367 12 pages. I.
- Beginnings of Cyanidation. By J. McCombie Min Mag. London, vol. 4, p 456 2 columns
- DEVELOPMENTS IN CYANIDE PRACTICE. By P E Barbour M & M, vol. 31, p 597. 8 columns I.
- Some Modern Methods in Ore Treatment by Cyanidation. By E. O. Watt T. Au. I. M. E., vol. 9, p. 76. 18 pages. I
- Notes on the Working of the Mc-Arthur-Forest Process for Extracting Gold. By G A. Goyder T Au I. M. E, vol 3, p 159 12 pages
- THE CLANCY PROCESS Lixiviation Process By J C Clancy. Min. & Sci Press, vol. 101, p 862. 5\frac{1}{2} columns
- THE CLANCY CYANIDE PROCESS. M. & M., vol. 31, p. 433. 3 columns.
- THE ADAIR-USHER PROCESS. By A. Adair. P. C. M. & M. Soc S. A, vol. 8, p. 331, 18½ columns, D, vol 9, p. 23, 2 columns; p. 48, 5 columns; p. 94, 5 columns; p. 118, 3 columns; p. 158, 7½ columns.
- THE NEW CLANCY CYANIDE PATENTS E & M. J, vol. 90, p. 701. 9 columns.
- RECENT DEVELOPMENTS IN THE ATTEMPT TO AMEND THE CYANIDE PATENT. By G G. Turri T. Au. I M. E., vol. 4, p. 195. 20 pages CYANIDATION OF CONCENTRATE. By
- F. C Brown Min & Sci. Press, vol. 101, p 273 12 columns.

- CYANDING CONCENTRATE AT TARACOL, KOREA By J. D. Hubbard. Min & Sci. Press, vol. 99, p. 471. 5½ columns.
- NOTES ON THE CYANIDE TREATMENT OF CONCENTRATES. By A. Grothe. E & M J, vol 88, p. 668. 3½ columns I
- CYANIDATION OF CONCENTRATES. By A E Drucker. Min & Sci Press, vol 100, p 416 4\frac{3}{4} columns. I.
- NOTE ON THE CYANIDING OF CONCENTRATES BY PERCOLATION By A. L. Edwards P C. M. & M. Soc. S. A, vol. 5, p. 345. 1½ columns.
- Last Drainings. By H A. White. P. C M & M Soc. S. A., vol. 7, p 239, 9 columns, D.; p. 329, 4 columns; p. 407, 8 columns, D.; vol 8, p. 15, 2½ columns
- A QUICK TREATMENT BY CYANIDE OF "BLACK SANDS." By B V Burnett. P C M. & M Soc. S A., vol 6, p 240, 2 columns; p. 277, 1 column, p 316, 1 column; p. 344, 12 columns
- ELECTROCHEMISTRY OF SOLUTION OF GOLD IN POTASSIUM CYANIDE. P. C. M. & M. Soc. S. A., vol. 10, p 21. 2½ columns.
- CONTINUOUS COLLECTION OF SAND FOR CYANIDING By W. A. Caldecott. Min. & Sci. Press, vol. 99, p. 659. 4 columns
- THE CONTINUOUS COLLECTION OF SAND FOR CYANIDING. By W. A. Caldecott. P. C. M. & M. Soc. S. A., vol. 10, p. 43, 2½ columns, I; p. 142, 2 columns; p. 238, 2½ columns.
- Sand Collecting and Washing. P. C. M. & M. Soc. S. A., vol. 8, p. 391. 1½ columns.
- See also SAND TREATMENT.
- Notes on the Precipitating Effects of Substances Containing Various Forms of Carbon and Cellulose on Cyanide Solutions Containing Gold and Silver. By A. J. Clark and W. J. Sharwood. P. C. M. & M. Soc. S. A., vol. 10, p. 234, 8 columns, p. 405, 1 column.

- PRECIPITATION FROM CYANIDE SOLU-TIONS BY ZINC SHAVINGS AND DUST: A Comparison of Results and Costs. By A. J. Clark. P. C. M & M. Soc. S A., vol 9, p. 222, 3 columns; vol. 10, p. 205, 3 columns
- EXPERIMENTS ON THE PRECIPITATION OF GOLD FROM CYANIDE SOLUTION BY CARBON IN LIME By E. H Croghan. P C M & M Soc. S. A, vol 10, p. 391 5 columns
- PRECIPITATION OF GOLD BY CARBONACEOUS MATTER By W A. Caldecott. Min & Sci. Press, vol. 98, p. 828. 1½ columns.
- ZINC BOX WHITE PRECIPITATES. By R F Coolidge. Min & Sci Press, vol 99, p 394 4 columns.
- ELECTRICAL PRECIPITATION FROM CYANIDE SOLUTIONS. E. & M. J, vol. 89, p. 598. 1½ columns
- ELECTROLYTIC PRECIPITATION. By M. R. Lamb E & M J, vol 87, p 705. 2 columns.
- PRECIPITATION OF GOLD AND SILVER BY SOLUBLE SULPHIDES E. & M. J., vol. 87, p. 841. 12 columns
- Notes on Precipitation. By M. Smith. P. C. M. & M, Soc S. A., vol 9, p. 300. 4½ columns; p 351, 1½ columns.
- ZINC DUST PRECIPITATION. By A. J. Clark. Min. Mag London, vol. 4, p. 289. 7½ columns. I.
- ZINC DUST PRECIPITATION AT THE HOMESTAKE MINE. By R Linton. E. & M. J, vol 88, p 199. 12 columns.
- ZINC DUST PERCIPITATION AT CERRO-PRIETO By R. Linton. P. C. M. & M Soc. S A, vol 10, p. 60. 2½ columns.
- ZINC DUST PRECIPITATION AT MERCUR, UTAE. E. & M. J., vol 86, p. 79. 1 column.
- ZINC DUST PRECIPITATION AT CERRO-PRIETO. By Robt Linton P. C. M. & M. Soc. S. A, vol. 9, p 74, 5 columns; p. 165, 3 columns, p. 207, 1½ columns; p 232, 1 column.

- ZINC BOX PRECIPITATION AT PARRAL, MEXICO E & M J. vol 86, p. 122. 1³/₂ columns
- THE "WHITE PRECIPITATE" OF THE PRECIPITATING BOXES IN THE CYANIDE WORKS By A. Prister P. C. M. & M. Soc. S. A, vol. 5, p. 62, 1 column, p. 75, 8 columns; p. 129, 10½ columns; p. 148, 5½ columns, p. 171, 6 columns; p. 310, 1½ columns
- DE WILDE PRECIPITATION PROCESS. By G. Witteveen. M & M., vol. 31, p. 342. 3½ columns.
- THE TREATMENT OF SLIMES BY CYANIDATION AND ELECTRICAL PRE-CIPITATION ON MERCURY By F. T Mumford T Au I. M. E, vol 9, p. 96. 10 pages. I
- CYANIDING SLIME By M R. Lamb T A. I. M. E, vol 40, p. 775. 4½ pages. I.
- SLIME TREATMENT IN CYANIDING T A. I. M. E., vol. 40, p 768 6 pages I
- Cyaniding Slime T. A I M E, vol. 40, p 775 4½ pages. I
- SETTLING SLIME IN CYANIDE TREAT-MENT P. C. M & M Soc S A., vol. 9, p. 411. 1 column.
- IMPROVEMENTS IN SLIME TREATMENT By M. Torrente P. C. M & M. Soc. S. A., vol. 5, p. 46, 6½ columns, I.; p 83, 1½ columns; p. 100, 1½ columns; p. 127, 3 columns; p 150, 4 columns; p 179, 3½ columns
- Notes on Improvements in the Cyanide Treatment of Sands and Slimes. By C H Pead. P. C M. & M, Soc. S A., vol 6, p. 76, 4 columns; p. 194, 2 columns; p. 223, 3 columns, p. 249, 3\frac{1}{2} columns
- COLLOIDAL SILICIC ACID IN SLIMES By W. A. Caldecott. P. C. M. & M. Soc. S. A., vol 7, p. 217. 1 column.
- THE TREATMENT OF ACCUMULATED SLIME, AND THE USE OF FILTER PRESSES FOR CLARIFYING SLIME SOLUTION AND BY-PRODUCTS. By

- J. D O'Hara. P C M. & M Soc S A, vol. 10, p. 342, 5 columns, p 403, 2 columns, I.
- TREATMENT OF A CONCENTRATE-SLIME By A E. Drucker Min. & Sci Press, vol 96, p. 458. 5 columns. I.
- THE SEPARATION OF SLIME IN CYANIDE TREATMENT. By H. G. Nichols. Min. & Sci. Press, vol 96, p 563. 7 column I.
- TREATMENT OF SLIME IN THE CYANIDE PROCESS Min. & Sci. Press, vol. 100, p. 798 4 columns I
- SLIME TREATMENT IN CYANIDING. Min & Sci Press, vol. 100, p. 44. 5 columns I
- A METHOD OF SETTLING SLIMES, AS APPLIED TO THEIR SEPARATION FROM SOLUTION IN CYANIDE TREATMENT By H G Nichols. T. I M. & M, vol 17, p. 293. 38 pages I
- CYANIDE TREATMENT OF SLIME P. C M. & M. Soc. S. A, vol. 10, p. 322. 3½ columns.
- METHOD OF TESTING SLIME. By G. J. Young. Min. Mag, London, vol. 3, p. 133. 2½ columns I
- SLIME TREATMENT BY CYANIDATION. E & M J, vol 88, p 688. 5½ columns.
- A PROPOSED NEW SYSTEM FOR THE CYANIDE TREATMENT OF SLIMES. By F. McCann. E & M. J., vol. 88, p. 688. 5½ columns.
- CYANIDING SLIMES. E. & M. J, vol. 89, p 462. 1½ columns. I.
- ALL-SLIME TREATMENT OF ORE IN CYANIDE PLANTS. By H. A Megraw. E. & M J., vol. 89, p. 319. 5 columns. I.
- CYANIDING SLIMES. E. & M. J, vol. 89, p. 319. 5 columns. I
- CYANIDING SLIME: Process By E. B Wilson. M. & M., vol. 29, p. 59. 6 columns. I.
- SLIME TREATMENT IN CYANIDING. By E. B. Wilson. M. & M., vol. 29, p. 59. 6 columns. I.

- SLIME TREATMENT IN CYANIDING. M. & M, vol. 29, p. 129, 9 columns, I.; p. 187, 3 columns, I, p. 224, 6 columns, I
- SLIMING ORE FOR CYANIDATION. By M. R. Lamb Min. & Sci Press, vol. 95, p. 658 1½ columns
- SLIME SETTLING BEFORE CYANIDING. E & M. J., vol 87, p. 837 3 columns. I.
- ALL-SLIMING. By E M Hamilton. Min. & Sci. Press, vol 99, p 255. 5½ columns I.
- The Chemical Control of Slimes. By H. E. Ashley T. A I M. E., vol. 41, p. 380 16 pages. I
- SLIME TREATMENT AT VARIOUS CY-ANIDE PLANTS. Min. & Sci. Press, vol 95, p. 46. 4½ columns.
- THE UTILIZATION OF WASTE HEAT IN SLIMES TREATMENT. By A. Salkinson. P. C. M & M. Soc S A, vol 7, p 403, 6 columns, vol 8, p. 52, 1 column; p 81, 7½ columns, p 142, 6½ columns.
- FURTHER NOTES ON THE UTILIZATION OF WASTE HEAT IN SLIMES TREATMENT By A Salkinson P C. M & M. Soc. S. A., vol 9, p. 308. 31 columns
- Proposed Process for Treatment of Zinc Gold Slimes Before Smelting By C. E. Meyer. P C. M. & M. Soc. S. A., vol 6, p. 361, 6 columns; p 83, 1 column; p. 139, 2 columns
- THE DORR CONTINUOUS SLIME THICK-ENER. M. & M., vol. 30, p 79. 12 columns I.
- SLIME TREATMENT AT KALGOORLIE.

 By M W. von Bernewitz. Min. &
 Sci Press, vol 95, p 743 2 columns I.
- SLIME TREATMENT AT THE SANTA NATALIA MILL. By C Shapeley. E. & M. J., vol. 90, p. 358. 4 columns I.
- All-Slime Cyanide Process at Hacienda de la Union. E & M. J., vol. 86, p. 991. 2 columns.

- SLIME TREATMENT AT THE TAJO, ROSARIO MILL, MEXICO T. A. I M E., vol. 41, p 345 11 pages. I
- SLIME TREATMENT AT THE NORTH STAR MINES, CALIFORNIA E & M. J., vol 90, p. 410 1 column.
- FILTER PRESS TREATMENT OF SLIMES. By H R Edmans T Au I M E., vol 11, p. 77. 19½ pages. I
- Notes on the Use of the Filter Press for Clarifying Solutions. By S J. Truscott and A Yates. P. C. M & M Soc. S. A, vol 7, p 3, 2½ columns; p 45, 2 columns; p 83, 2 columns; p 269, ½ column; p. 321, 2 columns.
- FILTERING SLIMES By E Parrish. Min & Sci Press, vol 99, p. 493. 2½ columns.
- FILTER PRESS WORK. M. & M., vol 31, p 600 1 column I.
- FILTER PRESSING SLIMES By M W. von Bernewitz Min & Sci. Press, vol 101, p 377. 3 columns
- FILTER PRESS WORK IN CYANIDING CONCENTRATE Min. & Sci. Press, vol 100, p 416 3 columns I
- Vacuum Filtration By A. Nichols. Min & Sci Press, vol 100, p. 395. 2 columns. I.
- FILTER PRESSING. P. C M. & M. Soc S A, vol. 10, p. 222. ½ column.
- THE FILTER PRESS IN CYANIDING BY E B Wilson M. & M, vol 29, p 129, 9 columns, I; p 187, 3 columns, I., p 224, 6 columns, I
- FILTERING SLIMES IN CYANIDING. Min & Sci. Press, vol 95, p. 715. 3 columns. I
- FILTERING GOLD SLIME. By E. Jensen E. & M. J, vol. 87, p. 902. 2 columns. I.
- CONTINUOUS VACUUM-FILTER MA-CHINE By B Hunt. Min & Sci. Press, vol. 97, p. 430. 3 columns. I.
- CONTINUOUS SLIME FILTER By R. Schorr Min & Sci Press, vol. 97, p. 194. 4 columns. I.

- OLIVER CONTINUOUS FILTER By A H Martin Min & Sci Press, vol. 99, p 715. 2 columns I.
- USE OF THE OLIVER CONTINUOUS FILTER AT THE NORTH STAR MINES, CALIFORNIA. E & M. J, vol. 90, p. 411. 1 column I.
- THE OLIVER FILTER PRESS AT GRASS VALLEY E & M J., vol. 87, p 440. ½ column I.
- THE OLIVER CONTINUOUS FILTER AT MINAS DEL TAJO By G A. Tweedy and R. L Beals. E & M J, vol. 89, p. 506 5 columns. I.
- THE BURT RAPID CYANIDE FILTER. By E Burt. Min. & Sci Press, vol. 95, p 717. 3½ columns. I.
- THE BUTTERS' SLIME-FILTER AT THE CYANIDE PLANT OF THE COMBINATION MINES COMPANY, GOLDFIELD, NEVADA By M.R. Lamb T A I. M. E, vol 38, p 200. 10 pages. I
- THE BUTTERS' FILTER USED AT THE MONTEZUMA MILL, COSTA RICA E. & M. J., vol. 90, p 716 \(\frac{1}{2}\) column.
- THE SWEETLAND FILTER PRESS BY E J Sweetland E & M J, vol 85, p 359 3 columns I
- THE HUNT CONTINUOUS SLIME FILTER
 P C M & M Soc. S A., vol 10,
 p. 295. 1½ columns
- FILTERING SLIMES BY RIDGEWAY FILTER E. & M. J, vol 86, p 121. 1 column.
- PRESSURE FILTRATION. By E. J. Sweetland Min. & Sci Press, vol. 99, p 853 4½ columns I
- THE BLAISDELL PRESSURE FILTER.

 Min. & Sci. Press, vol 95, p. 188.

 1 column I.
- VACUUM SLIME-FILITERS AT GOLD-FIELD. By A. M Smith Min. & Sci. Press, vol 99, p. 65. 2 columns.
- The Fairchild Vacuum-Filter. Min. & Sci Press, vol. 95, p. 279. 1 column. I.

- VACUUM SLIME-FILTERS. Min & Sci. Press, vol. 95, p. 46 4½ columns
- IMPROVEMENTS IN THE TREATMENT OF SLIME BY THE VACUUM-FILTER PROCESS By A W Allen. E & M. J, vol. 87, p. 1004. 3 columns. I.
- VACUUM-FILTER TREATMENT OF SLIMES. E. & M J, vol 87, p 1004 3 columns. I.
- VACUUM-FILTERING OF SLIME AT WAIHI, NEW ZEALAND P. C. M & M, Soc S. A, vol 8, p 13. 2 columns
- FILTRATION OF SLIMES AT EL ORO, MEXICO. By D L. H. Forbes. E & M J, vol 86, p. 458. 32 columns. I.
- FILTER PRESSES AT THE TAJO, ROSARIO MILL, MEXICO T. A. I M. E, vol. 41, p 349. 12 pages
- FILTER PRESS PRACTICE IN THE HOME-STAKE MILLS. Min & Sci. Press, vol. 95, p. 21 4½ columns. I
- SLIME TREATMENT AT THE EL ORO MILL, MEXICO. E. & M J, vol. 87, pp. 688 and 689 4 columns.
- See also Slimes and Their Treatment
- SOME SUGGESTIONS ON THE CYANID-ING OF TAILINGS By A Prister. P C M & M. Soc S A., vol. 5, p 338, 6½ columns; vol. 6, p 113, 1½ columns, p. 190, ¾ column.
- A PROPOSED METHOD OF TREATING SAND RESIDUE DUMPS. By S. J. Truscott and A. Yates. P. C. M. & M. Soc S A., vol 6, p. 213. 3½ columns, vol. 7, p. 293, 3 columns.
- THE CYANIDING OF REFRACTORY TAILINGS ON THE WITWATERSRAND. BY W. H. C. Lovely T. Au. I. M. E., vol. 11, p. 104. 9 pages.
- RE-TREATMENT OF TAILING AT OROYA-BROWNHILL. Min. Mag London, vol 4, p. 460 1½ columns. I. Flowsheet
- See also SAND TREATMENT.

- CYANIDATION OF SILVER ORES. By W. J. Sharwood. Min. & Sci Press, vol. 97, p 418. 5 columns.
- CYANIDATION OF MANGANESE SILVER ORES. By E. M Hamilton. Min. & Sci. Press, vol. 99, p. 756 22 columns.
- CYANIDATION OF SILVER ORES. By F P Holt. Min. & Sci. Press, vol 98, p. 546. 4 columns Tables.
- CYANIDATION OF SILVER ORES By T. P. Holt Min. & Sci. Press, vol. 99, p 159 61 columns. D
- CYANIDATION OF SILVER ORES. By D Mosher. Min & Sci Press, vol. 98, p. 691. 5½ columns. I.
- CYANIDATION OF SILVER ORES. By L. B. Kniffin. Min & Sci. Press, vol. 100, p. 322 13 columns.
- TREATMENT OF THE MOUNT REID AURIFEROUS ORES WITH THE HELP OF CYANIDE OF POTASSIUM By L Williams. T. Au. I. M E, vol 4, p. 45. 5 pages.
- EXPERIMENTS ON THE ASSAY OF ACID WASHES RESULTING FROM THE CYANIDE "CLEAN-UP" BY THE USE OF BISULPHATE. By L. J. Wilmoth. P. C. M & M Soc. S. A., vol. 10, p. 136. 5½ columns.
- THE USE OF THE BISULPHATE OF SO-DIUM IN THE CLEAN-UP. By J. E. Thomas and G. W. Williams. P. C. M & M. Soc. S A, vol 5, p. 334, 7 columns, vol. 6, p. 82, 4 columns; p. 113, \(\frac{3}{2}\) columns, p. 156, 3 columns.
- CYANIDE WORKS' CLEAN-UP PRACTICE. By J. E. Thomas. P. C M. & M, Soc. S. A, vol 7, p. 109, 3 columns; p. 181, 2\frac{3}{4} columns, p. 211, 5 columns; p. 268, 1\frac{1}{4} columns.
- Notes on Lime, Clean-Up, Etc. By G W. Williams. P. C. M. & M., Soc S. A., vol. 5, p. 251, 7½ columns; p. 314, 2 columns; vol. 6, p. 19, 4 columns, p. 51, 3 columns; p. 78, 5 columns
- Some Further Improvements in Appliances for the Cyanide Clean-

- Up. By D V Burnett P. C. M. & M. Soc. S A, vol. 5, p 145, 5 columns, I.; p 211, 1½ columns; p. 235, 2½ columns; p 255, 1½ columns.
- CYANIDATION AT THE ALASKA-TREAD-WELL MINES By T. A. Rickard. Min Mag., London, vol. 3, p. 280. 2 columns
- CYANIDING CRIPPLE CREEK DUMPS.

 M & M., vol 29, p 444 ½ column.
- CYANIDATION OF CRIPPLE CREEK ORES By P. Argall. Min & Sci. Press, vol 101, p. 804 33 columns.
- CYANIDING AT THE MONTEZUMA MILL, COSTA RICA E. & M. J, vol 90, p 716. 3 columns.
- CYANIDING AT THE NORTH STAR MINES, GRASS VALLEY. E. & M. J., vol 87, p 440. 3 columns. I.
- CYANIDING AT THE NORTH STAR MINES IN CALIFORNIA. By J. Tyssowski. E. & M J, vol 90, p 409. 83 columns I
- CYANIDE PRACTICE AT THE HOMESTAKE MILLS. By F L Bosqui. Min & Sci Press, vol. 95, p. 21 4½ columns. I
- CYANIDING BLACK HILLS "BLUE ORES" By B. D O'Brien. M. & M, vol 29, p 427. 9 columns.
- CYANIDING SILVER ORES IN HON-DURAS By G. E Driscoll Min. & Sci. Press, vol. 98, p 388 4½ columns I.
- RECENT CYANIDE PRACTICE IN KOREA.
 By A. E. Drucker. Min. & Sci.
 Press, vol. 97, p. 458. 6 columns
- CYANIDING AT MINAS DEL TAJO, SINA-LOA. E. & M. J., vol. 89. 7 columns. I.
- CYANIDE PRACTICE AT MINAS DEL TAJO, SINALOA, MEXICO. By G. A. Tweedy and R. L. Beals. E. & M. J., vol. 89, p. 566. 12 columns. I.
- CYANIDE PRACTICE AT EL TAJO MILL, JALISCO, MEXICO. E. & M. J., vol. 89, p. 274. 1½ columns. I.

- THE CYANIDE PRACTICE AT THE EL ORO MILL, MEXICO. E. & M. J, vol 87, p 683. 23 columns. I.
- CYANIDING AT TAJO, ROSARIO, MEXICO. T. A. I. M. E, vol 41, p. 339 30 pages. I
- NOTES ON THE CYANIDATION OF SILVER-GOLD ORES AT GUANAJUATO, MEXICO. By J A. Reid J. M Soc N S., vol 14, p. 37 12½ pages.
- DEVELOPMENT OF THE CYANIDE PROC-ESS FOR SILVER ORES IN MEXICO By B Macdonald. E & M J, vol. 85, p 802 42 columns
- CYANIDATION OF SILVER ORES AT GUANAJUATO, MEXICO By B Macdonald E. & M. J., vol. 85, p 710. 23 columns. I
- PRESENT CYANIDE PRACTICE IN MEXIco By M. R. Lamb. E & M. J, vol 85, p. 703 20 columns. I
- CYANIDING AT THE NEW ESPERANZA MILL, EL ORO, MEXICO. E & M J, vol 86, p. 760. 5 columns I.
- Silver Cyaniding in Mexico E & M. J., vol 86, p 846. 3 column
- SILVER CYANDING IN MEXICO By J B Empson. E & M J, vol 86, p 667 3½ columns
- CYANIDATION OF SILVER ORES, PACHU-CA, MEXICO By C T Rice E & M. J., vol. 86, p 647 18½ columns. I
- CYANIDE TREATMENT AT THE JESUS MARIA AND FLORES MILLS E. & M. J., vol 86, p 616. 10 columns.
- CYANIDING AT THE YOQUIVO MILL, WESTERN CHIHUAHUA. E & M J, vol. 90, p. 812 1 column
- SILVER CYANIDING AT THE SAN RAFAEL MILL, PACHUCA. By E Girault. E. & M. J., vol. 90, p. 67. 6½ columns. I.
- CYANIDING ORES IN MEXICO By E. Girault. M. & M., vol. 30, p. 618. 5 columns. I.
- Cyanidation of Silver Ore in Mexico. By W. A. Caldecott.

- Min & Sci Press, vol. 97, p 294 5 columns.
- CYANIDATION IN MEXICO By F J
 Hobson Min & Sci Press, vol. 97,
 p 159, 4 columns; p 182, 6 columns, I.
- MILLING AND CYANIDE PRACTICE, SAN PROSPERO MILL, GUANAJUATO MIN. & Sci Press, vol. 97, p. 130. 5 columns
- CYANIDATION OF SILVER ORE IN MEXIco By W. A. Caldecott. Min. & Sci Press, vol. 96, p 426, 4½ columns, p 594, 4 columns, I
- CYANIDATION OF PARRAL SILVER ORES. By H. T. Wilhs. Min & Sci. Press, vol 98, p. 488 4 columns
- CYANIDATION OF MANGANESE SILVER ORES OF MEXICO By E M. Hamulton. P. C M & M Soc. S. A, vol 10, p 65. 3½ columns
- The Cyaniding of Silver Ores in Mexico By A. F. J. Bordeaux. T. A. I. M. E., vol. 40, p. 764, 12 pages, I., Discussion, p. 917, 2 pages
- CYANIDING AT THE TONOPAH EXTEN-SION MILL Min & Sci. Press, vol 100, p. 522. 4 columns.
- CYANIDING AT THE FLORENCE GOLD-FIELD MILL E & M J., vol 89. p. 367 2 columns
- CYANIDING AT THE MONTGOMERY-SHOSHONE MILL. By P E Saun. E & M. J., vol. 89, p. 217. 4½ columns I.
- CYANIDING AT THE PITTSBURG SILVER
 PEAK MILL, NEVADA. M. & M.,
 vol. 29, p 569 8½ columns. I.
- CYANIDING AT THE DESERT MILL, MILLERS, NEVADA Min. & Sci Press, vol. 95, p 494 8½ columns I.
- CYANIDATION AT THE GOLDFIELD MILL. E & M. J., vol 86, p. 471. 6 columns. I.
- CYANIDING AT GOLDFIELD, NEVADA, Min. & Sci. Press, vol. 96, p. 843 1 column
- CYANIDATION IN NEVADA. By A. G. Kirby. Min. & Sci. Press, vol. 96, p. 836. 8 columns.

- CYANIDATION IN NEVADA. By L. M. King. Mm. & Sci. Press, vol. 96, p. 123 5½ columns.
- CYANDING THE ORES OF EASTERN OREGON By A. Del Mar. E & M. J. vol 89, p 667 2 columns.
- CYANIDATION IN THE MALAY STATES. By H F Lofts. P. C. M & M. Soc S A, vol 8, p. 340. 3 columns.
- RECONSTRUCTION OF THE AUGUSTIAS CYANIDE MILL. By H A Megraw E. & M J, vol 90, p 321. 6 columns. I
- CYANDING AT THE ASHANTI GOLD-FIELDS E & M. J., vol. 89, p 459. 1½ columns
- CYANIDATION AT MERCUR, UTAH. By L. A. Palmer. Min & Sci Press, vol 98, p 616 7 columns I.
- CYANIDING AT THE PITTSBURG SILVER PEAKS PLANT. Min & Sci Press, vol. 98, p. 659. 4½ columns
- DIRECT CYANIDING ON THE RAND E. & M J., vol 87, p. 883. 1 column
- See also THE METALLURGY OF GOLD AND SILVER.
- See also Cost of Metallurgical Treatment.

Cyaniding Plants

- VARIABLES INFLUENCING CYANIDE PLANT DESIGN By M. R. Lamb. E. & M J, vol 90, p 8 2½ columns I.
- SMALL CYANIDE PLANTS. E. & M. J. vol. 86, p 457. 1 column.
- HOMEMADE CYANIDE PLANT. P C. M. & M. Soc S. A, vol. 9, p. 278. 2 columns.
- CYANIDING AT THE MONTANA-TONO-PAH MINING COMPANY'S PLANT Min. & Sci. Press, vol. 97, p. 324. 7½ columns. I
- CYANIDING AT THE NEVADA GOLD-FIELD REDUCTION WORKS. Min & & Sci. Press, vol 97, p. 254. 22 columns. I

- THE STANDARD CONSOLIDATED CYANIDE MILL By S. F. Shaw E. & M. J, vol 87, p 483. 6½ columns I
- CYANIDING AT PLANT OF THE SIMMER

 DEEP AND JUPITER REDUCTION

 WORKS Min & Sci Press, vol 99,
 p. 397 5 columns. I
- A SKETCH OF THE SMALL CYANIDE PLANT AS ERECTED AND WORKED IN RHODESIA By F J. Thomas. P C M. & M Soc. S A, vol 10, p. 82, 7 columns; p. 207, 2½ columns
- SLIME PLANT OF THE SIMMER DEEP AND JUPITER REDUCTION WORKS. Min & Sci Press, vol. 99, p. 398 1½ columns.
- CYANIDE MILLS, GUANAJUATO DE-VELOPMENT COMPANY. By C. T Rice E. & M J, vol. 86, p. 947, 11²/₂ columns, I ; p 997, 15 columns, I.
- VETA COLORADO CYANIDE MILL, PARRAL, MEXICO By C T Rice E & M J., vol. 86, p 120 8 columns.
- An All-Slime Cyanide Plant at Guanajuato, Mexico By E Shapley. E. & M J, vol 88, p. 68. 13 columns.
- CYANIDE PLANT AND PRACTICE AT THE MINAS DEL TAJO, ROSARIO SINALOA, MEXICO. By G. A. Tweedy and R. L. Beals. T. A. I. M. E., vol. 41, p 324. 56 pages. I.
- DESCRIPTION OF A CHEAP CYANIDE PLANT ERECTED IN WESTERN AUSTRALIA By E M Weston P C. M & M Soc S. A, vol 5, p. 23. 2½ columns.
- REGENERATING COPPER CYANIDE SO-LUTION By R. P Wheelock Min. & Sci. Press, vol. 100, p. 397. 3 columns
- See also Fine Crushing by Mills, ETC

Chlorination Processes

CHLORINATION IN CALIFORNIA. By W E Darrow. Min & Sci. Press, vol. 97, p. 609. 3\frac{3}{4} columns.

- REFINING GOLD BY CHLORINE GAS. Min. & Sci. Press, vol 22, p 278, 1½ columns; p 297, 1½ columns
- THE MALM DRY CHLORINATION PROC-ESS By R L Herrick M. & M, vol. 30, p 370. 9 columns. I.
- Malm Process in Colorado A
 Dry Chlorination Process By F.
 Rickard. Min & Sci Press, vol. 99,
 p 662. 2½ columns
- DRY CHLORINATION OF SULPHIDE ORES By F. W. Traphagen. Min. & Sci Press, vol. 98, p. 522. 2 columns. Table.
- DRY CHLORINE PROCESS: The Chlorination of Complex Ores Containing Precious Metals, Together with Zinc, Lead and Iron By F W Traphagen. M. & M, vol 29, p 449 4½ columns
- CHLORINATION OF GOLD ORES; LABORATORY TESTS: Discussion of the paper by A. L. Sweetser, Trans., vol. 38, p. 236 T. A. I. M. E., vol. 39, p. 793. 2½ pages.
- See also Cost of Metallurgical Treatment

Refining Gold and Silver

- FLUXING OF GOLD SLIMES By C E.

 Mayer P. C M. & M Soc. S A,
 vol 5, p. 168, 4 columns, p. 211,
 1½ columns, p. 341, ½ column, vol. 6,
 p. 17, 1 column.
- TREATMENT OF THE GOLD AND SILVER PRECIPITATE AT DOS ESTRELLAS By W. Neal. Min & Sci Press, vol 98, p. 327. 2 columns.
- SMELTING GOLD PRECIPITATES AND BULLION WITH OIL FUEL By A. Yates. E. & M. J, vol. 88, p. 473. 3\frac{1}{2} columns.
- ELECTROLYTIC REFINING OF BULLION IN THE UNITED STATES MINTS. By H. J Slaker. E. & M. J., vol. 90, p. 214. 2 columns.
- ELECTROLYTIC REFINING OF GOLD. By B. T. K. Rose Min. & Sci. Press, vol. 98, p 890. 1 column.

- THE CLEAN-UP, MELTING AND REFINING OF GOLD BULLION. By G W Williams. Min. & Sci. Press, vol 95, p. 277. 5 columns
- REFINING OF SILVER BULLION CONTAINING ARSENIC AND ANTIMONY. By B. Neilly. J. C. M I, vol 11, p 586. 6 pages I.
- BATTERY AND CYANIDE GOLD SMELT-ING By A. Thomas P. C M & M Soc S A, vol. 9, p 6, 6 columns; p 50, 2 columns; p. 120, 5 columns; p 162, 5½ columns; p 191, 4 columns
- RESULTS OF BAG-HOUSE EXPERIMENTS IN CONNECTION WITH TAVENER'S PROCESS. By H. Rusden P C M & M. Soc S. A, vol 5, p 288 2 columns. I.
- THE TAVENER PROCESS By K. L. Graham. P C. M & M. Soc S A, vol 5, p. 315. 2 columns.
- See also Cost of Metallurgical Treatment.

Metallurgy of Iron and Steel

- ABOUT SOME OF THE PROPERTIES OF STEEL By A E Hunt P. E. Soc W Pa, vol 2, p 271, 8 columns, p 251, 6 pages
- THE SOLID NON-METALLIC IMPURITIES IN STEEL (SONIMS). By H. D. Hibbard. T A. I. M E., vol. 41, p. 803. 20 pages.
- ON THE CHEMICAL CHANGES WHICH PIG IRON UNDERGOES DURING ITS CONVERSION INTO WROUGHT IRON. By F. C. Calvert. Min Mag., vol 9, p 487 6 pages.
- THE DETERIORATING EFFECT OF "ACID PICKLE" ON STEEL RODS, AND THEIR PARTIAL RESTORATION ON "BAKING." P. C. M & M Soc. S A., vol. 7, p. 424. 2½ columns.
- NOTE ON SOME CAUSES OF RED-SHORT-NESS AND COLD-SHORTNESS IN IRON. By W Metcalf. P E. Soc. W Pa, vol. 2, p 217. 2 columns; p. 219, 2 columns.

- CRYSTALLIZATION OF IRON AND STEEL. By A. M. Johnston. P. C. M. & M. Soc. S. A., vol. 10, p. 3. 15 columns.
- On the Compounds of Carbon and Iron, and Their Influence on the Production of Pig Iron By A. Gurlt. Min. Mag, vol. 8, p. 40, 7 pages; p. 123, 6 pages.
- CARBON AND THE PROPERTIES OF CAST IRON By H M. Howe. E. & M. J., vol. 86, p 943 12 columns
- THE CARBON-IRON DIAGRAM. By H. M. Howe. T A I. M. E., vol. 39, p. 3. 68½ pages. I.
- A SIMPLE IDENTIFICATION TEST FOR IRON AND STEEL. P. C. M. & M. Soc. S. A., vol 10, p. 326. 3½ columns.
- HEAT TREATMENT OF STEEL RAILS, By W. Metcalf. P. E. Soc. W Pa, vol 24, p. 135. 19½ pages. I.
- MALLEABLE CAST IRON. By B Stoughton. Sch. Mines Quart, vol 29, p. 54. 9 pages.
- STEEL CASTINGS. P. E. Soc. W. Pa, vol. 25, p. 333. 21 pages. I.
- EXTRACTION OF IRON FROM ORE AND PULP. By W. C. Brown. E. & M. J., vol. 90, p. 445. 1 column. I.
- SEPARATION OF SILICA AND ALUMINA IN IRON ORES. E. & M. J., vol. 86, p. 168. 1 column.
- Influence of Top-Lag on the Depths of the Pipe in Steel Ingots. By H M Howe T. A. I. M. E., vol. 40, p. 804. 2½ pages.
- SEGREGATION IN STEEL INGOTS. By H. M. Howe Sch. Mines Quart, vol. 29, p. 238. 3 pages.
- The Influence of Ingor-Size on the Degree of Segregation in Steel Ingors. By H. M. Howe T. A. I. M E., vol 40, p. 644. 4 pages. I.
- Piping and Segregation in Steel Ingots: Discussion of H. M. Howe's Paper. T. A. I. M. E., vol. 38, p. 924. 11 pages. I.
- THE INFLUENCE OF THE CONDITIONS OF CASTING ON PIPING AND SEGRE-

- GATION, AS SHOWN BY MEANS OF WAX INGOTS. By H. M Howe and B. Stoughton. T. A I. M. E, vol. 38, p. 109. 17 pages. I.
- Piping and Segregation in Steel Ingots By Henry M. Howe. T A. I. M. E, vol. 38, p. 3 105 pages. I.
- Piping and Segregation in Steel Ingots: Discussion of the paper of H. M. Howe. Trans., vol. 38, p 3. T A. I M. E., vol. 39, p 818. 32½ pages. I
- PIPING AND SEGREGATION IN STEEL INGOTS Discussion of Paper of H. M. Howe, vol. 38, pp. 3 and 924; vol. 39, p. 818. T. A. I. M. E., vol. 40, p. 821. 10 pages. I.
- E Von Mallitz. T. A. I. M. E., vol. 38, p. 412 34 pages.
- STEEL HARDENING METALS. By J. H. Pratt. U. S. G. S, Mineral Resources, 1903, Mineral Resources, 1904, 58 pages
- COPPER-CLAD STEEL. By W. Tassin. E. & M J., vol 88, p 813. 3½ columns.
- CUPRO-NICKEL STEEL. By G. H. Clamer E. & M. J., vol. 90, p. 215. 2 columns.
- NEW FORMS OF STEEL FOR NEW USES. By R. B Woodworth. P. E. Soc. W. Pa., vol 24, p 40 50 pages I.
- LABORATORY METEODS FOR MAKING ALLOYS OF IRON AND VANADIUM. By W. L. Morrison E. & M. J, vol 87, p. 1035. 1½ columns. I
- Vanadium Steel. By J. K. Smith. P. E Soc. W Pa, vol 23, p 423. 26 pages.
- Vanadium Steel. M & M., vol. 31, p. 334. 13 columns.
- MANGANESE STEEL. By W. S. Potter. J. W. Soc. E, vol. 14, p. 212. 28 pages. I
- THE USE OF FERRO-ALLOYS. E. & M. J., vol. 85, p 363. ½ column.

- Some Experiments on Smelting Titaniferous Iron Ore. By G. H. Stanley. P. C. M. & M. Soc. S. A., vol. 10, p. 162, 19½ columns, I.; p. 345, 11½ columns, I.; p. 253, 2 columns.
- THE RELATION OF SLOW DRIVING TO FUEL-ECONOMY IN IRON BLAST FURNACE PRACTICE. By J. B. Miles. T. A I. M. E., vol 39, p 540. 4½ pages.
- THE WORK OF THE TESTING DEPARTMENT OF THE WATERTOWN ARSENAL, IN ITS RELATION TO THE METALLURGY OF STEEL. By J. E. Howard. T A. I. M E, vol 39, p. 223. 5½ pages.
- THE WORK OF THE TESTING DEPARTMENT OF THE WATERTOWN ARSENAL IN ITS RELATION TO THE METALLURGY OF STEEL. Discussion of the Paper of J. E. Howard, p 223. T. A. I M. E., vol. 39, p. 859. 32½ pages. I.
- THE UNIFORM NOMENCLATURE OF IRON AND STEEL: Discussion of the Report of Committee 24 of the International Association for Testing Material, presented at the Brussels Congress, 1906, and republished in Bi-monthly Bulletin, No 20, March, 1908, pp. 227-237, but not included in this volume. T. A I M E, vol. 39, p. 924. 6 pages.
- THE AIR-FURNACE PROCESS OF PRE-PARING WHITE CAST IRON FOR THE MALLEABLIZING PROCESS. By H. M. Howe and Enrique Gouceda. T. A. I. M E. vol. 39, p. 765. 91 pages. D.
- OXYGEN PROCESS FOR MELTING OF IRON By A. Gradenwitz M. & M., vol. 31, p. 146. 4 columns I.
- A New Martin Furnace with Double Hearth. E. & M J, vol. 88, p. 728. 3\frac{1}{2} columns. I.
- ORE HANDLING BRIDGE AT DU-QUESNE STEEL WORKS E. & M J., vol. 87, p. 944. 2 columns. I.

- The Rolling of Special Sections of Iron and Steel. By W. McKee. J. W. Soc. E, vol. 14, p 729. 15 pages. I.
- CALCINATION ("RUCKING") OF IRON-STONE IN NORTH STRAFFORDSHIRB, ENGLAND. T. I. M. E, vol. 27, p. 107. 5 pages. I.
- ROASTING AND SMELITING PLANT AT LONDONDERRY IRON WORKS. By R. G Leckie, J. M. Soc. N S, vol. 1, p. 50, pt. 3. 2½ pages.
- NATIVE IRON SMELTING IN HAUTE GUINÉE (WEST AFRICA). By J. M. Campbell. T. I. M. & M., vol 19, p. 458. 5 pages. I.
- Iron and Steel Works at Hanyang, Hupe, China. By A J. Seltzer. E & M J., vol. 89, p. 1231. 10 columns. I.
- THE UNITED STATES STEEL CORPORA-TION. By F. Hobart. E & M J, vol. 87, p. 659. 7½ columns.
- Introduction of the Thomas Basic Steel Process in the United States. By G. W. Maynard. T A I. M. E, vol. 41, p. 280, 16 pages; p. 903, 1 page.
- THE COLLOSEUS PROCESS FOR MAKING SLAG CEMENT. By F. A. Talbot. E & M. J, vol. 90, p 608 4½ columns. I.
- On the Progress and Present Condition of the Manufacture of Iron in the United States. By E F. Pletschke. Min. Mag., vol. 10, p. 223. 6 pages.
- On the Manufacture of Strel Min. Mag., vol. 5, p. 296 10½ pages.
- THE IRON MANUFACTURE OF GREAT BRITAIN. By W. Truran. Min. Mag, vol. 5, p. 459, 21½ pages, I, vol. 6, p. 1, 14 pages; p. 225, 11½ pages, I.; p. 304, 11½ pages, p. 398, 11½ pages.
- Manufacture of Wrought Steel Min. Mag., vol. 10, p. 216. 5 pages

- RECENT DEVELOPMENTS IN THE MET-ALLURGY OF IRON. By B. Neumann. E. & M. J., vol. 89, p. 1068. 9 columns.
- THE PRESENT TECHNICAL CONDITION OF THE STEEL INDUSTRY OF THE UNITED STATES By P. Barnes. U S. G S., Bull. 25 85 pages 1885.
- IRON STEEL AT CLOSE OF NINETEENTH CENTURY. By J M Swank U S. G. S. Mineral Resources, 1900
- TWENTY YEARS' PROGRESS IN IRON AND STEEL MANUFACTURE IN UNITED STATES. By J. M. Swank. U S G S, Mineral Resources, 1891 37 pages.
- MANUFACTURE OF IRON AND STEEL; AND IRON ORES OF THE UNITED STATES. By J M Swank U.S. G S, Mineral Resources 1883-1884, vol 14.
- Pig Iron Production for 100 Years. E & M. J, vol. 90, p. 1263. ²/₄ column.
- SOUTHERN RESOURCES FOR MANU-FACTURE OF IRON AND STEEL By J. Birkinbine. U S G. S, Mineral Resources, 1886, vol. 8. 4 pages.
- HISTORY OF THE DEVELOPMENT OF THE MANUFACTURE OF IRON AND STEEL SHEETS. By S. M. Kinter. P E. Soc. W. Pa, vol 23, p 147. 35 pages. I.
- MANUFACTURE OF IRON BLOOMS. By J. T. Hodge. Min. Mag., vol. 2, p. 244. 5 pages I.
- IRON AND STEEL FROM BLACK SANDS. P. C. M. & M Soc S. A., vol. 7, p. 418. 3½ columns.
- The Iron Manufacture of Great Britain: Theoretically and Practically Considered. By W. Truran. Min. Mag., vol. 8, p. 105, 16 pages; p 203, 17 pages; p. 301, 20 pages; p 399, 16½ pages; p. 495, 12 pages; vol 7, p. 38, 20 pages; p. 125, 25 pages; p. 234, 11 pages, p 334, 10½ pages; p 425, 20 pages

- BASIC OPEN-HEARTH STEEL MANUFACTURE, AS CARRIED OUT BY THE DOMINION IRON AND STEEL COMPANY AT SIDNEY, CAPE BRETON, NOVA SCOTIA By F. E Lathe J. C M I., vol. 10, p 373 24 DAGES I.
- THE IRON AND STEEL INDUSTRY OF THE PROVINCE OF ONTARIO, CANADA By J G Barmelee J. C M I, vol 11, p. 125 25 pages I
- EARLY IRON MAKING IN BRAZIL BY O A. Derby E. & M J., vol 88, p. 1112 2 columns.
- IRON MAKING IN AUSTRALIA By A Selwyn-Brown E & M. J, vol 85, p. 601. 23 columns
- STEEL MAKING IN CHINA. By T T Read Min. Mag, London, vol. 2, p. 199 11 columns I.
- STEEL INDUSTRY OF THE TRANSVAAL By D F Campbell Min Mag., London, vol 2, p 54. 4 columns. I.
- TOOL STEEL MAKING IN STYRIA. By R F Bohler Sch Mines Quart., vol 29, p. 329 • 12½ columns I.
- See also The Iron Trade, and Electro-Metallurgy, also Cost of Metallurgical Treatment.

Iron Blast Furnace Method, Etc.

- THE DESSIGATION OF FURNACE AIR. M. & M., vol 31, p. 723. 6½ columns I.
- DRY AIR BLAST IN STEEL MAKING. P. C. M & M. Soc. S. A, vol. 9, p. 217 ½ column
- IMPROVEMENTS IN THE DRY AIR BLAST. E & M J, vol. 88, p. 1170. 3\frac{3}{2} columns. I.
- GAYLEY DRY AIR BLAST AT WARWICK FURNACE. By E. B. Cook. E. & M. J., vol. 86, p 810. 11 columns.
- GAYLEY'S INVENTION OF THE DRY BLAST. By R. W. Raymond. E. & M. J, vol. 86, p 1200. 8½ columns

- GAYLEY'S INVENTION OF THE DRY BLAST By R. W. Raymond T. A. I. M. E, vol 39, p. 695. 10 pages.
- EXPERIENCE WITH THE GAYLEY DRY
 BLAST AT THE WARWICK FURNACES,
 POTTSTOWN, PENNSYLVANIA. By E.
 B. Cook. T. A I M E., vol 39,
 p 705 17½ pages. I.
- EXPERIENCE WITH THE GAYLEY DRY
 BLAST AT THE WARWICK FURNACES,
 POTTSTOWN, PENNSYLVANIA. Discussion of the Paper of E. B Cook,
 p. 705 T. A I. M. E, vol. 39,
 p 922. 2 pages.
- Notes on the Gayley Dry-Air Blast-Process Discussion of C A Meissner's Paper. T.A. I. M E, vol 38, p 901. 11 pages. D.
- ZINC OXIDE IN IRON-ORES, AND THE EFFECT OF ZINC IN THE IRON BLAST FURNACE By J J. Porter T. A. I M. E, vol 38, p 448. 7 pages.
- THE USES OF CHEMICAL ANALYSIS IN IRON BLAST FURNACE PRACTICE AND SOME NOTES ON LABORATORY METHODS. By G D Drummond J C M. I., vol 10, p. 442 20 pages.
- A Hot-Blast Furnace for the Small Operator By P A Babb E & M J, vol 88, p 647. 9½ columns I.
- THE SHAPE OF THE IRON BLAST FURNACE By H M. Howe E. & M. J., vol. 86, p 507. 13½ columns. I.
- BLAST PRESSURE AT THE TUYERES AND INSIDE THE FURNACE. By R. H. Sweeter T. A. I. M. E., vol. 40, p. 247. 6 pages. I
- AN UNUSUAL BLAST FURNACE PROD-UCT, AND NICKEL IN SOME VIR-GINIA IRON ORES. By F Firmstone. T. A I. M. E., vol. 39, p. 547. 2 pages; Discussion of the paper of F Firmstone, p 921. 1 Dage.
- AMERICAN BLAST FURNACE PROGRESS. E. & M. J, vol. 88, p. 1219. 11 columns.

- TRIAL RUNS WITH THE GARRETSON FURNACE By C. C Semple E. & M J, vol 88, p 1266. 6 columns
- THE COMBUSTION-TEMPERATURE OF CARBON AND ITS RELATION TO BLAST FURNACE OPERATION BY C. P. Linville T. A. I M E, vol. 41, p 269. 11½ pages. D
- DEVELOPMENT IN THE SIZE AND SHAPE OF BLAST FURNACES IN THE LEHIGH VALLEY, AS SHOWN BY THE FURNACES AT THE GLENDON IRON WORKS By F. Firmstone T. A. I M E, vol. 40, p 459. 16 pages. I.
- BLAST FURNACE PRACTICE: Discussion of T F Witherbee Paper T. A I. M E, vol 38, p. 887. 13 pages
- Iron Manufacture: Economy in Its Production, Improved Form of Blast Furnace Min Mag., vol 10, p 415. 6 pages. I.
- PREPARATION OF MATERIALS FOR THE BLAST FURNACE By D Baker E. & M. J., vol. 85, p. 609 5½ columns
- THE DISTRIBUTION OF IRON BLAST FURNACES IN THE UNITED STATES. E & M. J., vol 90, p. 160. Table and Map.

See also THE IRON TRADE.

Electro-Metallurgy of Iron and Steel

- TOOL STEEL DIRECT FROM THE ORE IN AN ELECTRIC FURNACE By A. Stansfield. J C. M. I., vol 13, p 151. 11½ pages. I.
- Possibilities in the Electric Smelting of Iron Ores. By A. Stansfield. J. C M I., vol. 11, p. 180. 8 pages
- THE ELECTROTHERMIC PRODUCTION OF STEEL FROM IRON ORE. By A. Stansfield. J C. M. I., vol. 10, p. 127. 4½ pages.
- PROGRESS IN ELECTRO-SIDERURGY. By P McN Bennie. J. C. M I, vol. 13, p. 135. 16 pages. I.

- THE TREATMENT OF STEEL IN ELECTRIC FURNACES By H. M. Howe. E. & M. J., vol. 88, p 400. 21 columns. I.
- ELECTRICAL REDUCTION OF IRON.
 By J. W. Richards. Min & Sci.
 Press, vol 100, p. 549. 8 columns I.
- ELECTRIC SMELTING OF IRON ORE IN SWEDEN E. & M J., vol 88, p. 474. 1½ columns.
- THE REDUCTION OF IRON ORES IN THE ELECTRIC FURNACE. By R. Turnbull J. C. M. I., vol. 11, p. 173 6 pages.
- ELECTRIC SMELTING OF IRON ORE. By C. E Elwell. Min. & Sci. Press, vol. 97, p. 846. 1 column.
- THE ELECTRICAL SMELTING OF IRON ORES By R. L. Phelps. Mm & Sci. Press, vol 95, p 87 4½ columns. I.
- THE GIROD ELECTRIC FURNACE AND THE FRENCH WORKS USING THE PAUL GIROD STEEL PROCESS. By W. Borchers. T A I. M E, vol. 41, p. 120. 18½ pages. I.

Metallurgy of Lead

- REMARKS ON THE PROCESS FOR SMELT-ING LEAD. By A Trippel. Min Mag., vol. 4, p. 36. 12 pages.
- EARLY SMELTING AT CERRO GORDO. By F. Drake. Min. & Sci. Press, vol. 100, p. 745. 2½ columns.
- A Proposed New Method of Smelting Lead Concentrates. By H. F. Collins. T. Au. I. M. E., vol 4, p. 124. 7½ pages.
- HANDLING BLAST FURNACE BULLION AT. THE SELBY SMELTING WORKS. By J C. Bennett. E. & M. J., vol. 86, p. 83. 5 columns. I.
- Desilverizing Lead. By H O. Hofman. U. S. G. S., Mineral Resources, 1883 and 1884, vol. 14
- LEAD SLAGS. By M W. Hes. U. S. G. S, Mineral Resources, 1883 and 1884, vol. 14.

- LEAD AND COPPER SLAGS By J A. Barr Min. & Sci. Press, vol. 101, p 602. 6½ columns.
- THE ROBBINSON NON-SLAGGING
 TUYERE E. & M. J., vol. 85, p. 251.
 1 column. I
- ALTERING THE CAPACITY OF A BLAST FURNACE By T Kapp E & M. J., vol. 90, p. 595. \(\frac{2}{3}\) column.
- SYSTEM OF MIXING ORE PREPARATORY TO SMELTING E. & M. J, vol. 89, p. 648, ½ column. I.
- LOSS BY LEAKAGE OF BLAST IN LEAD AND COPPER FURNACES E. & M. J., vol. 86, p. 756. 1 column I.
- THE MANUFACTURE OF SUBLIMED WHITE LEAD By J I. Blair. E. & M. J, vol 90, p 906. 7 columns. I.
- THE ELECTROLYTIC TREATMENT OF GALENA. By E. F Kern and H S. Auerbach Sch. Mines Quart., vol 29, p. 63. 19½ pages.
- METALLIC LEAD FROM GALENA BY AN ELECTROLYTIC PROCESS. E & M. J., vol 89, p. 715. 1 column. I
- ELECTROLYTIC REFINING OF LEAD-ANTIMONY ALLOY. E. & M. J., vol. 87, p. 892 ½ column.
- See also Electro-Metallurgy.
- THE BAG HOUSE AT SELBY, CALIFORNIA By J. C. Bennett. E. & M J., vol. 86, p 451 16½ columns I.
- THE BAG HOUSE AND ITS RECENT APPLICATIONS. By W. C Ebaugh. E. & M. J., vol 88, p. 1020. 6 columns. I.
- THE REFINING OF BASE BULLION AT PORT PIRIE AND TREATMENT OF BY-PRODUCTS. By B. B. Bayly. T. Au. I M. E., vol. 12, p. 79. 26 pages I.
- NOTE ON THE REFINING OF BASE BUL-LION. By W. Bowling P. C. M. & M. Soc S. A., vol 5, p. 225, 6 columns; p. 263, 3½ columns; p. 313, 1½ columns; p. 341, 4 columns; vol. 6, p. 19, ½ column; p. 49, 4 columns; p. 169, 3 columns.

- A FEW NOTES ON THE REFINING OF BASE BULLION. By C W Lee and W. O Brunton P. C M. & M. Soc. S A, vol. 7, p. 358, 5 columns, I.; vol. 8, p. 52, 1 column; p. 80, \(\frac{1}{2}\) column; p. 121, \(\frac{1}{2}\) column.
- THE REFINING OF BASE LEAD BULLION CONTAINING SILVER, AND HIGH IN GOLD By G. H Blakemore T. Au. I M E., vol. 5, p. 221. 38 pages
- A FEW NOTES ON THE CUPELLING GOLD-LEAD BULLION. By Geo. Melvill P C. M & M Soc S A., vol 9, p 157, 3½ columns; p. 345, ½ column
- REMOVING ACCRETIONS IN CRUCIBLE OF LEAD FURNACES. By J. N. Goddard. E & M J, vol. 86, p. 763. 3 columns. I.
- LEAD SMELTING IN QUEENSLAND, AUSTRALIA E & M. J, vol 87, p. 604. 2 columns.
- TRAIL SMELTER AND LEAD REFINERY.
 By J. M. Turnbull M & M, vol.
 31, p. 121. 10 columns I
- METALLURGICAL TREATMENT OF JAMESONITE ORES, BLACK HILLS, SOUTH DAKOTA By G P Ives and I. D. Ossa. E & M J, vol 87, p. 891. 3 columns
- SMELTING REFRACTORY LEAD ORES AT LAURIUM. By L. Guillaume. E & M. J., vol. 88, p. 446 7½ columns. I.
- LEAD AND ZINC SMELTING IN UPPER SILESIA By O. H. Hahn E. & M. J., vol. 89, p. 1111. 9\frac{2}{3} columns. I.
- SMELTING THE LEAD ORE OF THE CCEUR D'ALENE REGION Mm. & Sci. Press, vol 96, p. 627 14 columns. I.
- SMELTING BISMUTH-LEAD ORE, SINO-LOA, MEXICO By S. E. Bretherton E. & M. J., vol. 89, p. 773. 42 columns. I.
- Webb City Lead Smeltery. By L. L. Wittich. M & M., vol. 31, p. 709. 3\frac{1}{2} columns. I.

- A PERUVIAN LEAD SMELTER. By L W Strauss. Min. & Sci. Press, vol. 97, p 361. 4½ columns. I.
- MIDVALE BLAST FURNACE PRACTICE, UTAH. By L. A Palmer. M. & M., vol. 30, p. 543 4 columns I.
- See also METALLURGY OF GOLD AND SILVER, and METALLURGY OF COP-PER, also Cost of METALLURGICAL TREATMENT.

Metallurgy of Nickel and Cobalt

- MINING AND SMELTING PLANT OF MOND NICKEL COMPANY. By G B. Shipley. E. & M J., vol 90, p. 364. 8½ columns I
- ELECTRODE POSITION OF NICKEL, By E F. Kern and F G. Fabian. Sch. Mines Quart., vol. 29, p. 342. 28 pages.

Metallurgy of Quicksilver

- REDUCTION OF QUICKSILVER. Min. & Sci. Press, vol. 95, p. 151. \$\frac{1}{4}\$ column.
- SHORTENING THE ROASTING PERIOD FOR MERCURY ORES. By W. B. Dennis. E & M. J, vol. 88, p 112. 144 columns. I.
- QUICESILVER REDUCTION AT NEW ALMADEN. By S. B. Cristy. U. S. G. S., Mineral Resources, 1883 and 1884, vol. 14.
- SMELITING OF QUICKSILVER ORES OF HUANCAVELICA, PERU. Min. & Sci. Press, vol. 99, p. 563. 6 columns.
- GUADALOFE QUICKSILVER WORKS. By C. De Kalb. Min & Sci. Press, vol 100, p. 446. 4 columns. I.
- See also Cost of Metallurgical Treatment.

Metallurgy of Rare Metals

- METALLURGY OF ANTIMONY. M & M., vol. 29, p. 477. 1½ columns.
- Notes on the Construction of an Arsenic Plant. By H Howes. E. & M. J., vol. 88, p. 561. 7 column

- MANUFACTURE OF METALLIC TUNG-STEN AND FERRO-TUNGSTEN. By L. R. Pratt. E. & M. J., vol 90, p. 959. 1½ columns.
- URANIUM AND VANADIUM METAL-LUBGY By J. H Haynes. M & M., vol. 30, p. 139. 3½ columns. Flow-Sheet.

Roasting Ores, Roasting Furnaces, Etc.

- RECENT PROGRESS IN BLAST-ROASTING. By H. O. Hofman. T. A. I. M. E., vol 41, p. 739, 24 pages, I; p. 915, 4½ pages, I.
- RECENT PROGRESS IN BLAST ROASTING OF SULPHIDES. By H. O Hofman. E. & M. J., vol. 90, p. 317. 9½ columns. I.
- DETERMINING DUST LOSSES FROM ROASTERS. By C. C. Hoke. E. & M. J., vol. 89, p. 857. 1½ columns. I.
- LABORATORY EXPERIMENTS IN LIME-ROASTING A GALENA CONCENTRATE WITH REFERENCE TO THE SAVELS-BERG PROCESS. By H. O. Hofman, R. P. Reynolds, and A. E. Wells T. A. I. M. E., vol. 38, p. 126. 16 pages. I.
- LABORATORY EXPERIMENTS IN LIME-ROASTING A GALENA CONCENTRATE: A Discussion of H. O. Hofman's Paper. T. A. I. M. E., vol. 38, p. 935. 5 pages.
- Notes on the Desulphurization of Slimes by Heap Roasting as Conducted by the Broken Hill Proprietary Company, Limited. By E. J. Horwood. T. Au. I. M. E., vol 9, p. 106. 10 pages.
- THE McDougall Roasting Furnace By L. S. Austin. Min. & Sci Press, vol. 95, p. 280. 4½ columns. I.
- A MAKESHIFT ROASTING FURNACE. By H. W. Ross. Min. & Sci. Press, vol. 96, p. 527. 1 columns.
- THE WILFLEY FURNACE. By J. M. McCleave. E. & M. J., vol. 85, p. 453. 3½ columns. I.

- COMBINED ROASTING AND SMELTING FURNACE. Min & Sci. Press, vol. 22, p 257. 3 columns. I
- THE BAILEY ROASTING FURNACE.

 Min & Sci. Press, vol. 22, p. 297.

 3 columns. I.
- THE DWIGHT AND LLOYD SINTERING PROCESS. By A. S. Dwight. E & M J., vol. 85, p. 649. 11 columns. I.
- THE DESULPHURIZATION OF METAL-LIFEROUS SULPHATES, OR DR. HOL-LAND'S PROCESS. By O. M. Lieber. Min. Mag, vol 3, p. 168. 6½ pages.
- ROASTING OF THE ARGENTIFEROUS
 COBALT-NICKEL ARSENIDES OF
 TEMISKAMING, ONTARIO, CANADA.
 By H. M Howe, Wm. Campbell, and
 C. W. Knight. T A. I. M. E., vol.
 36, p. 162. 9 pages. I
- ROASTING AT KALGOORLIE. Min. & Sci Press, vol. 101, p. 50. 4 columns. I.
- ROASTING THE JAMESONITE ORES, BLACK HILLS, SOUTH DAKOTA. E. & M. J, vol. 87, p. 891. $\frac{2}{3}$ column
- THE ROASTING OF TELLURIDE ORES. By R. L Mack and G. H Scibibd. Min. & Sci. Press, vol. 95, p 751 6½ columns; p. 777, 9 columns. I.
- SINTERING AT CERRO DE PASCO. Min. & Sci Press, vol. 98, p 195. 17 columns. I.
- See also Metallurgy of Gold and Silver, Metallurgy of Lead, Metallurgy of Copper, Etc.
- See also Cost of Metallurgical Treatment.

Smoke Problem: Flue Dust, Fume, Bag Houses, Chimneys, Etc.

- DISPOSAL OF GASES AT SELBY, CALIFORNIA. By J. C. Bennett. E. & M J, vol. 86, p. 604. 2½ columns. I.
- DUST EXTRACTION FROM SMELITER SMOKE. Mm. & Sci. Press, vol. 101, p. 108 2 columns. I.

- Sprague Process for Treating Furnace Gases. By C. B Sprague E. & M. J., vol. 89, p. 519. 5 columns.
- CHICAGO'S SMOKE PROBLEM. By P. P. Bird. J. W. Soc. E, vol. 15, p. 279. 68 pages. I.
- SMOKE PREVENTION. By J. W. Krause P. E. Soc W. Pa., vol. 24, p. 91. 30 pages
- SEARCH FOR THE CAUSE OF INJURY TO VEGETATION IN AN URBAN VILLA NEAR A LARGE INDUSTRIAL ES-TABLISHMENT. By P. Frazer. T. A I. M. E., vol. 38, p. 498. 22 pages. I.
- BIBLIOGRAPHY OF INJURIES TO VEGE-TATION BY FURNACE GASES. By P Frazer. T. A. I. M. E, vol. 38, p 520. 36 pages.
- SMOKE IN SMELTING WORKS. By E. H. Messiter. Min. & Sci. Press, vol. 97, p. 26. 3½ columns.
- SMELTER SMOKE WITH A DISCUSSION OF METHODS OF LESSENING ITS INJURIOUS EFFECTS By L. S Austin. Min. & Sci. Press, vol. 95, p 649. 6 columns I.
- Notes on Smoke Suffs. Min. & Sci. Press, vol. 95, p. 90. 2½ columns
- THE CONDENSATION OF FUME AND THE NEUTRALIZATION OF FURNACE-GASES. By F. T. Havard. T A. I M. E., vol. 41, p. 631. 17 pages.
- ELIMINATION OF SMELTER FUME. By L. A. Palmer. M. & M., vol. 30, p. 496. 7 columns. I.
- SMELTER FUME IN SHASTA COUNTY, CALIFORNIA. By S. S. Smith. Min. & Sci. Press, vol 101, p. 375. 32 columns. I.
- Legal Status of Works Producing Noxious Gases. By C. Baskerville. E. & M. J., vol. 87, p. 884. 10½ columns.
- A PROCESS FOR SAVING WASTE IN SMELTERY GASES. By G. C. Westly. E. & M. J., vol. 90, p. 1164. 12 columns.

- COTTRELL PROCESS FOR CONDENSING SMELTER FUMES. E. & M. J., vol. 86, p. 375. 9 columns. I.
- SMELTER VERSUS OIL FUME. By E. B. Braden. Min & Sci. Press, vol. 99, p. 192. 47 columns
- FLUE DUST AND FUME IN SMELTERY
 GASES. By L. T. Wright. E & M.
 J, vol. 90, p 111. 4½ columns.
- SETTLING FINE DUST AT COPPER QUEEN SMELTERY. By G B. Lee E. & M. J., vol. 90, p 504 8 columns. D.
- FLUE CONSTRUCTION AND THE SAVING OF FLUE DUST. By J B Wynne. E & M. J, vol. 88, p 602. 7 columns. I.
- RECOVERY OF FLUE DUST. By C. W. Goodale E. & M. J., vol 89, p. 368. 12 columns.
- A CONCRETE BLOCK CHIMNEY. Min. & Sci. Press, vol. 97, p. 468. 1 column I.
- NEW 506-FOOT CHIMNEY AT GREAT FALLS SMELTER. By E. Higgins. E & M. J., vol. 87, p. 156 10 columns. I
- THE CATENARY FLUE. By N. S. Stewart. E. & M J, vol. 88, p. 257. 1½ columns.
- THE WORLD'S LARGEST CHIMNEY. By R. L. Herrick M. & M., vol. 30, p. 257. 7 columns I.
- THE ANTI-SMELTER FIGHT IN CALI-FORNIA. E. & M. J., vol. 86, p. 603. 1 column.
- DEVICE FOR SHAKING BAGS IN SMELTER BAG HOUSE. E. & M. J., vol. 86, p. 1009. 2 columns.
- THE DEPOSITION OF FLUE DUST. By C. F. Shelby. E. & M. J., vol. 85, p. 204. 3 columns.

Metallurgy of Tin

THE ASSAY OF TIN ORES. By J. Gray. P. C. M. & M. Soc. S. A., vol. 10, p. 312, 6½ columns; p. 402, 2½ columns.

- SMELTING THE TIN ORES IN THE YUNNAN DISTRICT, CHINA. T. I. M. & M., vol. 19, p. 192. 2 pages I.
- THE METALLURGICAL TREATMENT OF COMPLEX TIN SULPHIDES By P. J. Thibault. T. Au. I. M. E, vol. 8, pt 2, p 155. 8½ pages.

Metallurgy of Zinc

- RECENT ADVANCES IN THE ELECTRO-METALLURGY OF ZINC. By F. Peters. E. & M. J, vol 89, p. 1017 7½ columns. I.
- ELECTRIC ZINC SMELTING By F. T. Snyder Min. & Sci. Press, vol. 95, p. 720 13 columns.
- ELECTRIC FURNACE FOR ZINC SMELT-ING. By F A. J FitzGerald M & M, vol 31, p. 703. 22 columns I.
- TREATMENT OF COMPLEX ZINC SUIPHIDE ORES AT OKER, GERMANY By H Pope. E. & M. J vol. 89, p. 819 6 columns.
- Physical Factors in the Metal-Lurgical Reduction of Zinc Oxide By W McA Johnson. T.A. I M. E., vol 38, p. 656 7½ pages.
- PRESENT ZINC SMELTING CONDITIONS By R. G. Hall. Mm. & Sci. Pres, vol. 101, p. 299. 2‡ columns.
- A METHOD FOR THE RECOVERY OF ZINC FROM SOLUTIONS OF SULPHATE. By W. Cullen. P. C. M. & M. Soc. S. A, vol 10, p 87, 6 columns; p. 209, 2 columns; p. 240, 2 columns.
- Zinc Smelting for Pigments. By E. W Buskett. Min. & Sci Press, vol. 97, p. 604. 3 columns. I.
- FUME FILTRATION FOR PRODUCTION OF PURE SPELTER By J. S. G. Primrose. E & M. J, vol 90, p. 415. 11 columns. I.
- SMELTING BRIQUETTED ZINC ORE. By T. J. Hoover. E. & M. J., vol. 90, p. 323. 6 columns.
- CHARGING AND CLEANING MACHINE FOR ZINC FURNACES By O Saeger

- E & M J., vol 89, p 780. 4½ columns. I.
- See also Cost of Metallurgical Treatment.

Miscellaneous Information

- THE RELATIONS BETWEEN MINERS AND SMELTERS. E & M. J, vol 85, p 222. 4½ columns
- CALCULATION OF HEAT CONDUCTIVI-TIES. By C. Hering. Min & Sci Press, vol. 98, p. 357. 1½ columns.
- ELECTRIC HEAT VS HEAT FROM FUEL. Min & Sci Press, vol. 95, p 246. 2 columns
- Waste of Heat and Materials in Smeliting Works. By H Lang E. & M. J, vol 88, p 916 8½ columns
- FUSION TABLE OF MINERALS IN THE OXYGEN-GAS BLOWPIPE FLAME. By L M Luquer Sch. Mines Quart, vol 29, p. 179. 4 pages.
- PRACTICAL PYROMETRY. By R. S. Whipple. J. W Soc. E, vol. 12, p. 169 34 pages I.
- ADJUSTABLE PYROMETER STAND. By L. W Bahney. Mm. & Sci. Press, vol. 98, p. 629. 2½ columns. I.
- An Adjustable Pyrometer Stand. By L W. Bahney T. A I M. E., vol 40, p. 760. 4 pages. I
- MEASURING INDUSTRIAL TEMPERA-TURES. By T. T. Read. Min & Sci. Press, vol 95, p 712 6½ columns I
- SHAPE BRICK AND METHODS OF CAL-CULATING REQUIREMENTS FOR FUR-NACE WORK. By N. Peters. E. & M J, vol. 87, p 447 8½ columns. I.
- Use of Basic Refractory Brick in Metallurgy By F. T Havard E. & M J, vol. 86, p 802 6½ columns
- THE HAVARD COAL METER: An Apparatus for Measuring Coal on Way to Furnace M. & M, vol. 30, p. 728. 1 column. I

- BLAST FURNACE TUYERE. By L S Austin. Min & Sci. Press, vol. 98, p 392. ²/₃ column. I.
- THE UTILIZATION OF WASTE HEAT CONTAINED IN SLAGS FROM SMELTING FURNACES. By J. Howell and E A Ashcroft T Au I. M E., vol. 1, p 66 4½ pages I
- FURNACE CHARGING By G. F Beardsley Min. & Sci. Press, vol. 95, p 593 2½ columns.
- AGGLOMERATING ORE-FINES AND FLUE DUST. By H. Haas. E. & M. J, vol. 90, p 814. 11½ columns. I.
- OLD AND NEW METHODS OF GALVAN-IZING. By A. Sang. P E. Soc. W Pa, vol. 23, p. 546. 25 pages.
- ELECTROCEMENTIZING: Deposition of Metal by Cementation on Other Metal By A. Sang M. & M., vol. 30, p 408. 3\frac{1}{3} columns I.
- THE ROOT POSITIVE BLAST BLOWER. By L S. Austin. Min & Sci. Press, vol. 99, p. 432. 2 columns.
- RELATION BETWEEN THE ASSAY-VALUE OF MILL PRODUCTS AND SMELTER CONTRACTS By G Caetani. Min & Sci Press, vol 96, p. 25. 3½ columns
- Noiseless Furnace for Burning Crude Oil and A Crude Oil Burner. E. & M. J., vol 87, p 889. ½ column. I.
- Investigation of Ferro-Boron. By K Iwai and J C. Ballagh. Min. & Sci. Press, vol. 99, p. 185. 11½ columns. I.
- EFFICIENCY OF HEAT DRYERS. By W. B. Ruggles. Min. & Sci. Press, vol. 100, p. 456. 1 column.

SAND BOILS. By J. J. F. Brand. E. & M J., vol 87, p. 457 3 columns.

- HOUSING CONDITIONS AT THE GAR-FIELD SMELTER By L S Austin. Min & Sci. Press, vol. 100, p. 577. 3½ columns. I.
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- THE TREATMENT OF BLACK SANDS BY F. Alexander. P C M & M Soc S A, vol 10, p 174 4½ columns.

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- ECONOMY IN CUPOLA SMELTING By J W. Henderson. P. E. Soc. W. Pa., vol 25, p 313. 20 pages. I.
- Cupola Smelting in Arizona. By J Douglas, Jr. U S G. S., Mineral Resources, 1883 and 1884, vol. 14.
- THE BESSEMERIZING OF HARDHEAD.

 By D. M. Levy and D Ewen T.

 I. M. & M., vol. 18, p 466. 16

 pages. I.
- THE TREATMENT OF SULPHIDE ORES IN VICTORIA. By S. Radchiff and J. Drevermann. T Au. I. M. E, vol. 13, p. 132. 5 pages.
- TREATMENT OF COMPLEX SULPHIDES. By D. Clark. Min. Mag., London, vol 2, p. 56. 4 columns. I.
- METALLURGICAL SLEUTHING. By E. B. Wilson. M. & M., vol. 31, p. 476. 3 columns.

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- ALUMINIUM. Uses, Sources, Etc. By E. B. Wilson. M. & M, vol 29, p. 371. 2½ columns.
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- MICROSTRUCTURE OF COPPER EX-AMINED WITH A NEW ETCHING REAGENT. By R. R. Abbott. E. & M. J., vol. 87, p 1040. 3 columns. I.
- See also Occurrence of Copper and Copper Ores, and first volume of Index.

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- Proof Gold and Silver By J W. Pack Min. & Sci. Press, vol 96, p 324. 12 columns.
- "FIRE" GOLD. Min. & Sci Press, vol 96, p. 68. Note
- THE ALLOYS OF GOLD AND TELLURIUM By T. K Rose. T I. M. & M, vol. 17, p 285. 8 pages.
- "Green" Gold. By F A. Leach. Min. & Sci. Press, vol. 95, p 363. 1 column.
- GREEN GOLD. By F. A. Leach Min. & Sci Press, vol. 96, p. 195 decolumn.
- NATURE OF GOLD IN ALLUVIALS By F. L. Garrison. Min. & Sci Press, vol. 98, p. 760 4 columns.
- COLLECTING PRECIOUS METAL DUST. E. & M. J, vol 87, p. 863. 1½ columns I.
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- PRECIOUS METALS USED IN THE ARTS. E. & M. J., vol. 87, p. 499. 1 column.

- See also The Development and Production of Precious Metal Mining, and the Occurrence of Gold.
- QUANTITATIVE DETERMINATION OF SIL-VER BY MEANS OF THE MICROSCOPE By J. S. Curtis U S G. S, 6th Ann Rept., pp 323-352. 1884-85. I.
- ALLOYS OF GOLD AND TELLURIUM E. & M. J., vol. 86, p 567. 1½ columns.
- See also Metallurgy of Gold and Silver

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- THE GNOMONIC PROJECTION FROM A GRAPHICAL STANDPOINT By A F. Rogers. Sch. Mines Quart, vol 29, p. 24 9 pages I
- CONTRIBUTIONS TO THE MINERALOGY OF THE PACIFIC COAST By W. H. Melville and W. Lindgren. U S. G S, Bull 61. 40 pages. I. 1890
- CONTRIBUTIONS TO THE MINERALOGY OF THE ROCKY MOUNTAINS By W Cross U. S G S, Bull 20 114 pages. I. 1885
- THE MICROSTRUCTURE OF A COMPLEX ORE FROM THE FRISCO MINE, IDAHO By Wm Campbell E & M J, vol 87, p. 260 3½ columns. I
- A NEW METALLOGRAPHIC MICROSCOPE By W. Campbell. Sch Mines Quart, vol 31, p. 241 5 pages I
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- See also METALS, and METALLURGY OF VARIOUS METALS.
- Geology and Petrography of Crater Lake, National Park. By J. S. Diller and H. B. Patton. U. S. G. S., Professional Paper 3 167 pages. I. 1902.
- A MINERALOGICAL LEXICON OF FRANK-LIN, HAMPSHIRE, AND HAMPDEN COUNTIES, MASSACHUSETTS By B. K. Emerson. U. S. G. S., Bull. 126. 180 pages. I. 1895
- THE EDUCATIONAL SERIES OF ROCK SPECIMENS COLLECTED AND DISTRIBUTED BY THE UNITED STATES GEOLOGICAL SURVEY. By J S Diller U. S G S., Bull. 150 400 pages. I. 1898.

- Gravimetric Determination of Barium. M. & M., vol 29, p. 539. $\frac{3}{4}$ column.
- THE NATURE OF BAUXITE E & M. J, vol. 85, p 1093. 1½ columns
- Tests for Copper Minerals. By E. W Buskett. M. & M, vol. 31, p. 430. 3 columns.
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- RESEARCHES UPON CRIPPLE CREEK TELLURIDES Min & Sci. Press, vol 99, p. 427. 3½ columns.
- CRYSTALLOGRAPHIC STUDY OF THE THINOLITE OF LAKE LAHONTAN. By E S Dana. U. S G. S., Bull. 12. 34 pages I 1884.
- RADIUM EMANATION By F. H. Mason. Min. & Sci Press, vol 99, p 425. 3\frac{1}{2} columns D

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- What Is an Ore? By J. F Kemp. Mm & Sci. Press, vol 98, p. 419. 8½ columns.
- METHOD OF ESTIMATING WEIGHT OF GOLD IN A QUARTZ SAMPLE P. C. M. & M. Soc. S. A., vol. 10, p. 27. † column.
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- Ore of the Promontorio Silver-Mine, Durango, Mexico. T A I. M. E, vol. 38, p. 740. 2 pages
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- Antimony: Its Uses, Ores, Methods of Testing, Etc. By E. B. Wilson. M. & M., vol. 29, p. 476. 3\frac{3}{2} columns.
- Barrum Its Uses, Methods of Preparation, Etc By E. B Wilson. M. & M, vol 29, p 538 3 columns
- A FULGURITE FROM THE RARITAN SANDS OF NEW JERSEY WITH AN HISTORICAL SKETCH AND BIBLIOGRAPHY OF FULGURITES IN GENERAL. By W. L Burrows Sch. Mines Quart, vol. 31, p. 294. 26 pages.
- MAGNESITE By C G Yale. E. & M. J., vol. 85, p 110 \(\frac{2}{3}\) columns.
- PHOSPHORUS. By G W. Stose U S G. S, Mineral Resources, 1906 7 pages
- RADIUM IN THE ROCKS OF THE SIMPLON.
 Min. & Sci. Press, vol 95, p. 683

 Radium.
- RADIUM AND RADIOACTIVITY By L. F. Miller. M & M., vol 31, p 732. 5½ columns I
- RADIUM IN ENGLAND. E & M J., vol. 87, p. 500 ½ column.
- On Sibio-Tantalite, A New Mineral from the Stanniferous Gravelat Greenbushes, Budbury, West Australia. By J J. East. T Au. I M. E., vol. 1, p. 139 3 pages.
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- UMBER. P. C M & M Soc S A, vol. 8, p. 331. 2 columns
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- THE MINERALS OF CHILE, SOUTH AMERICA. By J. L. Smith. Min. Mag, vol 5, p. 371 11½ pages.
- MINERALS FROM THE PEGMATITE VEINS OF RINCON, SAN DIEGO COUNTY, CALIFORNIA By A. F Rogers Sch Mines Quart., vol 31, p. 208. 10 pages I.

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- THE TREADWELL ORES U S G. S., Bull 259, p. 77 1 page
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By C. Barus and V. Strouhal. U S
G S., Bull. 15 33 pages. 1885

Physical Properties of the Ironcarburets By C. Barus and V. Strouhal. U S. G. S., Bull. 35. 62 pages. 1886.

THE NEVADA METEORITE By W P Jenney. Min & Sci. Press, vol 98, p. 93. 37 columns I.

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Researches in Diamond Making. By F. H. Mason Min. & Sci. Press, vol 97, p 773. 3\frac{3}{2} columns I.

Prectous Stones Diamonds By G. F. Kunz U. S. G. S., Mineral Resources, 1905.

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THE FIRE TAX AND WASTE OF STRUCTURAL MATERIALS IN THE UNITED STATES. By H M. Wilson and J L. Cochrane. U S. G S., Bull. 418. 30 pages 1910.

Fire-resistive Properties of Various Building Materials By R. L. Humphrey. U S. G. S, Bull. 370. 99 pages. I. 1909.

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A PORTABLE SAWHORSE CRANE By C. C Brayton. Min & Sci. Press, vol. 101, p. 168. 2½ columns I.

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- THE ISOLATION OF CERTAIN MINE AREAS FROM CONTACT WITH THE AFTER-GASES CREATED BY AN EXPLOSION. By N. Robinson E. & M J, vol 87, p 507. 1½ columns.

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- Analyses of Samples of Air from Representative Mines in Scotland. By T Gray T. I. M E., vol. 39, p. 305. 9 pages. I.
- A CAUSE OF MISLEADING AIR-ANALY-SIS. Min & Sci Press, vol. 97, p. 58 1 column.
- NOTE ON THE CAUSE OF CERTAIN MIS-LEADING ANALYSES OF AIR P. C. M. & M. Soc. S. A., vol. 8, p. 280. 1 column.
- See also CHEMISTRY: Methods and Practice.
- PRODUCTION OF CARBON MONOXIDE IN MINE FIRES. By E Schulz Gluckauf, Dec 4, 1909.
- See also MINE FIRES.
- Permissible Quantity of Carbon Monoxide and Carbon Dioxide in Mines. P. C. M. & M. Soc. S. A.,

- vol 7, p 168, 2½ columns, p. 251, 12 columns
- THE ALLOWABLE AMOUNTS OF CARBON MONOXIDE AND CARBON DIOXIDE IN MINES. E. & M. J, vol 90, p 899. a column.
- CARBON DIOXIDE. By M. L. Fuller. U S. G. S., Mineral Resources, 1905.
- EXPLOSIVE MINE GASES AND DUSTS. By R T Chamberlin. U S G S, Bull. 383. 67 pages. 1909.
- EXPLOSIVE MINE GASES AND DUSTS.

 By R. T Chamberlin M & M., vol.

 30, p. 171. 7½ columns.
- See also Coal Dust as an Explosive.

 Earthquakes and Firedamp M &
 M., vol. 30, p. 252. 2½ columns.

 See also Health of Miners.

Gases Resulting from Burning Explosives

- Gaseous Decomposition; Products of Black Powder, with Special Reference to the Use of Black Powder in Coal Mines By C. M. Young. T A I M. E, vol. 41, p. 454 25‡ pages
- Gas from High Explosives By W. Cullen M & M, vol. 29, p. 414. 3 columns.
- Gases Resulting from High Explosives. By W. Cullen Min. & Sci Press, vol 99, p 297. 32 columns
- The Gases Resulting from the Use of High Explosives. By W. Cullen. P C M. & M Soc S. A, vol. 9, p. 144, 17½ columns; p 235, 4½ columns, p 274, 1½ columns; p 306, ½ column
- THE GASES RESULTING FROM THE USE OF HIGH EXPLOSIVES. By W. Cullen. P C M & M Soc. S A, vol. 10, p. 10. 73 columns.
- ANALYSES OF GASES FROM BURNING NITROGLYCERIN EXPLOSIVES. By W. Cullen. P. C. M. & M. Soc. S. A., vol. 10, p. 90. 6½ columns.

See also Chemistry: Methods and Practice and Use of Explosives in Coal Mining

Occurrence of Gases in Coal

- OCCLUDED GASES IN COAL By S. W. Parr and Percy Barker. Univ. of Ill, Bull. 32, Mar. 1, 1909.
- Occluded Gases in Illinois Coals. T. A. I. M. E., vol. 40, p. 27. 6 pages
- CONDITION OF GAS IN COAL. By R. T Chamberlin. M. & M., vol 30, p. 20, 8 columns, I.; p. 301, 8 columns. D.
- STUDY OF THE CONDITIONS OF GAS IN COAL. By R. T. Chamberlin Minning World, Feb. 5, 1910.
- OXYGEN IN COAL Min & Sci. Press, vol 99, p. 399. ½ column
- See also Outbursts of Gas in Mines

Gas in Mines Other Than Coal

- Poisonous Gases in Metal Mines E. & M. J., vol 87, p 300. 1 column.
- CARBONIC ACID GAS IN THE EL DOCTOR MINES, MEXICO. Min. & Sci. Press, vol 95, p. 243. ½ column.
- See also Mine Atmosphere and Gases and first volume of Index.

Outburst of Gas in Mines

- ESCAPE OF GAS FROM COAL. By H. C. Porter and F. K. Ovitz. U. S. Bureau of Mines, Circular No. 2
- Gas Blowees in Coyote Mine: Coal. By A. A. Galloway. M. & M, vol 31, p. 364. 1 column. I.
- See also Occurrence of Gases in Coal.

Detection and Testing of Mine Gases

The Livering Electrical Indicator for Firedamp. E. & M. J, vol. 86, p. 627 ½ column

- FIREDAMP: Its Composition, Detection and Estimation. By T. Gray. T. I M E, vol. 39, p. 286. 19 pages.
- EXAMINING FOR FIREDAMP. By J. Ashworth. M. & M, vol. 30, p. 153. 5\frac{2}{3} columns.
- Apparatus for the Detection of Firedamp. E & M. J, vol. 88, p. 566. \(\frac{2}{3}\) column.
- Notes on a Small Contrivance to more Easily Detect Firedamp. By W C Blackett. T. I. M. E., vol 37, p 276, 4½ pages, I.; p. 441, 2½ pages
- Carbon Monoxide Detector T. I. M E, vol 37, p. 587 1 page I
- Testing for Carbon Monoxide in Connection with Fires and Explosions in Mines By J S Haldane T I. M. E, vol 38, p. 267. 14½ pages.
- Tests for Carbon Monoxide M & M, vol 31, p. 33 ½ column.
- THE CUNYNGHAME-CADMAN GAS-DE-TECTING DEVICE. By E. A. Hailwood T. I. M. E, vol. 39, p. 13. 4½ pages. I.
- See also Estimation of Quantity of Gases
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- THE BAROMETRIC AND TEMPERATURE CONDITIONS AT THE TIME OF DUST EXPLOSIONS IN THE APPALACHIAN COAL MINES By N. H. Mannakee. T. A I. M E., vol. 40, p. 655. 12 pages.
- BAROMETRIC PRESSURE AND LIBERA-TION OF FIREDAMP. By L. Moir. E & M J, vol. 90, p. 565. 11 columns. D.
- Influence of Barometric Changes on Ventilation E. & M. J., vol 85, p. 1012. 1²/₄ columns.

- EFFECT OF ATMOSPHERIC PRESSURE ON EXUDATION. By W. H. Booth. Colliery Engineer, vol. 14, p. 104
- BAROMETER AND FIREDAMP EXPLO-SIONS. Colhery Engineer, vol. 10, p 209.
- BAROMETRIC PRESSURE AND MINE EXPLOSIONS E & M J, vol. 85, p 36. 1 column
- CONSIDERATION OF SUPPOSED ATMOS-SPHERIC INFLUENCE IN CONNECTION WITH COLLIERY EXPLOSIONS By J. Warburton Colliery Engineer, vol. 8, p. 257

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- The Estimation of Carbon Monoxide in Mine Gas By E. H. Weiskopf. P. C. M. & M. Soc. S. A., vol. 9, p. 258, 15½ columns, I.; p. 307, 1½ columns
- IODOMETRIC DETERMINATION OF SMALL QUANTITIES OF CARBON MONOXIDE. P. C. M. & M. Soc. S. A, vol. 6, p. 137. ½ column
- See also Detection and Testing for Mine Gases.

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- MINING LAW. By E R. L Gould. U. S G S, Mineral Resources, 1886, vol. 8.
- Uniform Mining Laws Min. & Sci Press, vol 101, p. 438 102 columns.
- Mining Legislation J C. M. I, vol 13, p 8 4½ pages
- SHORT TALKS ON MINING LAW By
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- HISTORICAL SKETCH OF MINING LAW. By R. W. Raymond U S G. S., Mineral Resources 1883 and 1884, vol. 14 19 pages.
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- QUEBRC MINING LAW. E. & M. J, vol 87, p. 1046. 1 column.
- MINING LAWS OF QUEBEC AND ON-TABIO. By T. F. Van Wagenen. Min. & Sci Press, vol. 101, p. 476 4 columns. Map.
- DEFICIENCES IN CANADIAN MINING LAWS: A Plea for Improvement and Unification By H. Mortimer-Lamb J. C. M. I, vol. 13, p. 478. 11 pages
- Mining Regulations in China. Min. & Sci. Press, vol 96, p 298 1½ columns
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- MINING LAWS IN WISCONSIN ZINC DISTRICT. By J E. Kennedy. E. & M J, vol 87, p. 861. 3 columns. See also MINE REGULATIONS.
- Mining Laws in Chile. T. I. M. E, vol 38, p. 39. 4 pages.

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- THE LAW OF MINES AND REAL ESTATE.

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- Acquisition of Public Oil Lands. By W Forstner. Min. & Sci Press, vol 101, p. 171 4½ columns.
- PUBLIC LANDS AND NEEDED LEGIS-LATION. By R. A Ballinger. Min. & Sci. Press, vol. 99, p. 748. 52 columns.
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- A Broad Apex. Min. & Sci. Press, vol. 95, p. 586. 8\frac{1}{3} columns I.
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- How to Acquire Title to Mining Claims in Mexico. Min. & Sci. Press, vol. 96, p 331. 1 column.
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- Assessment Work on Mining Claims. By W. E. Colby. Min. & Sci. Press. vol. 97, p. 808. 3½ columns.
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- PATENTING MINING CLAIMS. E. & M. J., vol. 87, p 1146. 23 columns.
- PATENTING MINERAL LAND By G. A. Packard. Min & Sci Press, vol. 99, p. 526. 5½ columns.
- MINING PATENTS. E & M. J, vol. 86, p. 572. 2 columns
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- Mining Claims on Forest Reserves. Min. & Sci Press, vol. 97, p. 3, 2 columns; p. 165, 2 columns.
- Size and Regulations of Mining Lots in the Joplin Lead and Zinc Region, Missouri. T. A I M. E, vol. 38, p. 323. 12 pages
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- NOTES ON THE EARLIEST DISCOVERIES IN AMERICA. Min & Sci Press, vol. 20, p 35. ½ column
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- THE EARLY HISTORY OF ANTHRACITE MINING. By H H. Lawrence. Coal Mining Supplement, E & M. J., vol. 88, p. 1. 9 columns I.
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- HISTORY OF COAL MINING IN PICTOU COUNTY, NOVA SCOTIA. E & M. J., vol. 85, p. 1102 1 column.
- THE LAST OF THE JERSEY FORGES. By E. P. Buffet. E. & M. J., vol. 85, p. 309. 4½ columns. I.
- CHRONOLOGY OF LEAD MINING IN THE UNITED STATES. By W. R. Ingalls. T. A. I. M. E., vol. 38, p. 644. 12 pages.

- Silver: History and Occurrence. By T. F. Van Wagenen Min & Sci. Press, vol 97, p. 392. 71 columns
- HISTORY OF MINING ON THE COMSTOCK Min & Sci. Press, vol. 97, p 496, 3 columns; p 570, 13½ columns, I.
- DECLINE AND REVIVAL OF COMSTOCK MINING. By W Symmes Min. & Sci. Press, vol 97, p 496, 8½ columns, I.; p. 570, 13½ columns, I.
- Comstock Beginnings By J. T Goodman. Min. & Sci Press, vol. 99, p. 19. 6 columns. I
- DISCOVERY OF THE GREAT COMSTOCK MINE. By D. De Quille Min & Sci. Press, vol 99, p. 22. 3½ columns.
- See also NEVADA.
- DISCOVERY OF THE AMERICAN NETTIE MINE E. & M. J, vol 90, p 758 1½ columns
- THE TRUE STORY OF THE CAMP BIRD DISCOVERY. E. & M. J., vol. 89, p. 1266 2½ columns.
- DISCOVERY OF THE CAMP BIRD MINE By T F. Walsh. E & M J, vol 86, p 223. 4 columns
- EARLY COLORADO DAYS. By G. W. Maynard. Min & Sci. Press, vol 98, p. 789. 7½ columns
- MINES AND MILLS OF COLORADO By A. B Paul Min & Sci Press, vol. 20, p 18, 1\frac{1}{2} columns; p. 34, \frac{7}{4} columns; p. 50, \frac{3}{2} column, p 114, 1\frac{1}{4} columns; p. 146, 1\frac{1}{2} columns; p. 178, 1 column, p 210, 1\frac{3}{4} columns; p. 234, 1 column; p 250, 1\frac{3}{4} columns.
- HISTORY OF IRON HILL, LEADVILLE E & M. J., vol 89, p. 261 1 column. See also Colorado
- DISCOVERY OF THE GOLD ROAD MINE. By J C. Kennedy. Min. & Sci. Press, vol. 101, p. 773. 1½ columns.
- HISTORICAL RÉSUMÉ OF THE COPPER QUEEN MINE. E & M J, vol. 87, p 409. 6 columns
- EARLY COPPER MINING IN THE PROV-INCE OF QUEBEC. By J. Douglas. J.C.M I, vol 13, p. 254. 19 pages.

- The Copper and Iron Region of Lake Superior Min. Mag, vol. 1, p. 261. 7½ pages.
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 p. 235. 10½ columns. I.
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- HISTORICAL SKETCH OF COPPER MIN-ING ON LAKE SUPERIOR. By A. Meads T L S M I, vol 14, p 202. 2 pages I.
- HISTORY OF THE COPPER REGION OF LAKE SUPERIOR. Min. Mag., vol. 10, p 124 18½ pages
- See also Occurrence of Copper and Copper Ores
- THE STORY OF THE BINGHAM CANYON. By H. W MacFarren Min. & Sci Press, vol 99, p 129 32 columns. I.
- THE MINING HISTORY OF MOUNT LYELL, AUSTRALIA T Au I. M. E, vol. 10, p 41. 14 pages
- ROUND MOUNTAIN MINES AND HISTORY, NEVADA By J. P Loftus. Min & Sci Press, vol. 99, p. 568. 1½ columns. I
- OLD METHODS IN MEXICO. Min. & Sci Press, vol. 95, p. 372. 4 columns.
- HISTORY OF THE EL TIGRE MINE, MEXICO. M & M, vol. 29, p 483. 3 columns
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- HISTORY OF THE BARBERTON GOLD-FIELD. P C M. & M Soc S A, vol 10, p 122. 10 columns. I. See also Africa.
- HISTORY AND REVIEW OF THE NITER INDUSTRY OF CHILE By M R. Lamb. E. & M. J., vol. 90, p. 18. 14\frac{3}{2} columns. I.

- HISTORY OF THE COAL FIELDS OF CHILE. T. I. M. E., vol 38, p. 31. 3 pages.
- See also CHILE.
- GOLD MINES OF TIBET. By A Del Mar Min. & Sci Press, vol. 100, p. 254. 3\frac{2}{3} columns.
- THE LED MULE LODE E & M J., vol. 89, p 1146 1 column.
- WASHED HIS HOME FOR GOLD: A Curious Incident as to Discovery of Gold. M. & M., vol. 31, p. 677. Note
- See also General Mining.

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- DUTIES OF A MINE FOREMAN IN THE BITUMINOUS FIELDS OF PENNSYLVANIA M & M., vol. 29, p. 94. 1 column
- MINE INSPECTION. By C. De Kalb. Min & Sci Press, vol. 99, p. 497. 4 columns
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- THE PROSPECTOR AND HIS FRIENDS. Min & Sci. Press, vol 95, p. 680. 2 columns. I.
- THE AMERICAN PROSPECTOR IN MEXI-CO AND HIS PROBLEMS By T. Chase E. & M J, vol 87, p. 694. 2 columns.
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- PROSPECTING FOR GOLD. M. & M, vol 30, p. 277. 1½ columns.
- PROSPECTING IN CHIHUAHUA, MEXICO By R. H. Burrows. Min. & Sci. Press, vol. 100, p. 392. 4 columns I.
- A SCIENTIFIC SEARCH FOR A NEW GOLDFIELD By R. T. Hill. E & M. J., vol. 86, p. 1157. 9 columns. I
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- Testing Placer Ground E & M J., vol. 87, p. 223 2½ columns.
- PROSPECTING AND MINING GOLD PLACERS IN ALASKA. By J. P. Hutchins U. S. G. S., Bull 345, p. 54 24 pages 1907.
- DISCOVERY OF PLACER GOLD. E & M J., vol. 88, p. 103. 2 columns.
- TESTING PLACERS IN KOREA. By R. Y. Hanlon. Min & Sci Press, vol 101, p 475. 2 columns. I
- See also Auriferous Gravels and Hydraulic Mining.
- PROSPECTING FOR COAL. By B. Halberstadt. M. & M, vol 30, p 454. 4½ columns. I
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- Systematic Exploration in the Pittsburg Coal-Seam. By F. Z. Schellenberg T A I M. E, vol 41, p. 225 12 pages I
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- PROSPECTING IN THE MESABI IRON RANGE M. & M, vol 29, p. 293. 2 columns.
- PROSPECTING FOR TIN ON CAPE PRINCE OF WALES. Min. & Sci Press, vol 95, p. 746. ½ column
- PROSPECTING FOR TIN IN SIAM By G B Adeney. Min Mag, London, vol 3, p 287. 2 columns. I.
- PROSPECTING AND TESTING OF CLAY DEPOSITS. By E. K. Soper. Min. & Sci. Press, vol. 100, p. 827. 7½ columns.
- See also Occurrence of Workable Clays.

- Prospecting in Siberia. Min & Sci Press, vol. 20, p. 354. 1 column.
- PROSPECTING IN THE NORTH. By H V. Winchell. Min. Mag, London, vol. 3, p 436. 4½ columns.
- PROSPECTING IN CHINA. By G. F. Ober. Min Mag London, vol. 4, p. 223. 1½ columns
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- See also Prospect Drilling, and first volume of Index, also Cost of Prospecting.

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- Use of the Divining Rod Min & Sci. Press, vol. 95, p. 500. \(\frac{2}{2}\) column.
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- THE DIVINING ROD. By R W Raymond. U S. G. S, Mineral Resources, 1882, vol. 17. 17 pages.
- The Divining Rod. E. & M J., vol. 85, p. 125. 1 column.
- MINING DISCOVERY: The Divining Rod. Min. Mag, vol 10, p. 51. 3 pages.
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- THE VALUATION OF PUBLIC LANDS: The Value of Coal Land. By G. H. Ashley U. S. G. S, Bull 424. 75 pages. 1910.
- DEPTH AND MINIMUM THICKNESS OF BEDS (COAL) AS LIMITING FACTORS IN VALUATION. By C A. Fisher. U. S. G S., Bull 424 75 pages. 1910.
- VALUE OF COAL LAND M & M., vol. 29, p. 366 } column
- PLACER EXAMINATIONS. By A. Lakes. M. & M, vol. 29, p. 540. 7½ columns I
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- Persistence in Depth of Treadwell Ores. U. S. G. S., Bull. 259, p 79. ‡ page.
- THE FACTORS THAT CONTROL THE DEPTH OF ORE DEPOSITS By J. W. Gregory T. Au. I. M. E, vol. 8, pt. 2, p. 127. 28 pages.

- Lives of Mines. Min & Sci Press, vol. 97, p. 456. 27 columns.
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- DEVELOPMENT OF THE ST. JOHN DEL REY MINES IN BRAZIL. Min. Mag, London, vol. 3, p. 465. 1 column. I.
- DEVELOPMENT OF THE EUGENE MINE, KOOTENAY, BRITISH COLUMBIA. E. & M J, vol 89, p. 420. 1 column I.
- THE DEVELOPMENT OF AN ORE SHOOT IN NOVA SCOTIA By E. P. Brown. J. M Soc. N S, vol 12, p. 57. 4½ pages. I.
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- METHOD OF DEVELOPMENT AT THE ESPERANZA MINE, MEXICO. Min. & Sci Press, vol. 99, p. 846. 1 column
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Shaft Sinking: Processes, Applications, Rate of Sinking, Raises, Winzes, Etc.

- Modern Shaft Sinking. By F Donaldson M. & M., vol 29, p 392, 3\frac{1}{2} columns; p 459, 10 columns, I, p 515, 7\frac{1}{2} columns, I.; p. 563, 6\frac{1}{2} columns, I; vol. 30, p. 124, 9\frac{1}{2} columns, I; p. 218, 5\frac{1}{2} columns, I; p. 332, 5\frac{1}{2} columns, I; p 404, 5\frac{1}{2} columns, I.; p 632, 5\frac{1}{2} columns, I.
- SHAFT SINKING. By C K. Colvin. Min. & Sci. Press, vol 85, p. 191. 2 columns
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- SHAFT SINKING AT THE GIROUX, ELY, NEVADA. Min. & Sci Press, vol. 100, p. 826 1 decolumns.
- THE SINKING AND EQUIPMENT OF THE LITTLETON COLLEGEES. By T H. Bailey T. I. M E, vol. 39, p. 418. 38 pages. I.
- Sinking into the Lower Coal-Measure at Hulton College. By A J Tonge T I M. E., vol. 39, p. 350. 12½ pages. I.
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- Sinking Through Bad Ground. By F. W. Adgate. Min. & Sci. Press, vol. 95, p. 183. 4½ columns. I
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- SHAFT SINKING THROUGH FAULTED GROUND. E. & M. J, vol. 87, p 215. 12 columns.
- SHAFT SINKING IN DANGEROUS GROUND. Min. Mag., London, vol. 2, p. 293. 2 columns: I
- Sinking a Wet Shaft at Tombstone. By E. W. Walker. Min. & Sci. Press, vol 98, p 284. 3 columns. I.
- SINKING THROUGH SAND AT NEW-BIGGIN COLLIERY By E. M. Bainbridge and W M. Redfeam T. I. M E, vol. 38, p. 577. 16 pages. I.

- SHAFT SINKING IN QUICKSAND AND BOULDERS By G W. Stuart. J. M Soc N. S, vol. 11, p. 69 5\frac{1}{2} pages.
- SHAFT SINKING BY CEMENTATION. By L. Morm. E. & M. J., vol. 86, p. 221. 6 columns I.
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- Puddling a Wet Shaft. By H. Boursin. Min. & Sci. Press, vol 96, p. 127 2½ columns I.
- Sinking a Shaft with Drop-Shaft and Air-Lock. Sch. Mines Quart., vol. 31, p. 219. 5 pages. I.
- THE DROP-SHAFT METHOD OF SINK-ING. E & M. J., vol. 90, p. 918. 42 columns. I.
- SHAFT SINKING BY CAISSONS OR DROP-SHAFTS. M. & M., vol. 29, p. 517. 3\frac{1}{2} columns. I.
- Special Methods of Shaft Sinking. P. C. M. & M. Soc. S. A, vol. 8, p. 64. 2½ columns.
- Driving a Long Vertical Raise. By C T. Kriebel. M & M, vol 30, p. 282. 2 columns. I.
- Sinking a Winze with Long Holes. By G C. McFarlane. E. & M J., vol. 86, p. 713. 1½ columns. I.
- Long-Hole System of Shaft Sinking. E. & M. J., vol. 85, p. 659. ½ column.
- See also Use of Bore Holes, Diamond and Rotary Drills, and Churn Drills.
- THE USE OF THE CHANNELING MA-CHINE IN MINING OPERATIONS: A Proposed Method. Min. & Sci. Press, vol. 101, p. 707. 5 columns. I.
- DRIVING VERTICAL RAISES WITH STOP-ING DRILLS By A. O. Christensen. E & M. J., vol. 88, p. 937. 2½ columns I.
- DRIVING INCLINED RAISES WITH STOP-ING DRILLS By A. O. Christensen. E. & M. J., vol. 88, p. 618. 2 columns I.

- DRIVING A SLOPE IN NEWFOUNDLAND M & M., vol. 31, p 569 7 columns I
- Boring Large Shafts. Min & Sci. Press, vol 20, p 257, 2 columns, I; p. 272, 1½ columns, I
- The Kind-Chaudron Boring Process for Shaft Sinking M & M, vol. 30, p. 332 5½ columns. I.
- SINKING BY MEANS OF UNDERHANGING
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 878. 4½ columns. I.

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- SHAFT SINKING BY FREEZING PROCESS. By S. F. Walker. M. & M., vol. 30, p 41. 7\frac{1}{3} columns.
- EXTENSION OF A COLLIERY WORKING SHAFT By M. S. Hachita E. & M. J., vol. 90, p. 1168. 6½ columns. I
- DRILLING IN SHAFT SINKING ON THE RAND. E. & M. J, vol 85, p 393. 1 column.
- See also Drilling and Boring.
- THE SINKING OF CIRCULAR SHAFTS. By Robert Steven T. I. M. E, vol 38, p. 22. 6 pages. I.
- See also DEVELOPMENT' Size, Shape, etc., of Shafts.
- Note on a Problem During Shaft Sinking. By C. B Saner. P. C M. & M. Soc. S A, vol 9, p. 70, 8 columns, I; p. 303, 4½ columns, I.
- RATE OF SHAFT SINKING ON THE RAND. T Au. I. M. E., vol. 5, p. 49. 6 pages.
- RAPID SHAFT SINKING IN BUTTE By C. J. Stone. E & M. J, vol 90, p 107. 2 columns.
- RECORD OF SHAFT SINKING AT No. 1 SKY LINE MINE. Min. & Sci Press, vol. 88, p. 40. Table.
- NEW SHAFT SINKING RECORD AT CORBIN, MONTANA By F. J Tuck.
 Mm. & Sci. Press, vol. 101, p 406.
 11 columns.
- RECORD SHAFT SINKING, SOUTH AFRICA. Min. & Sci. Press, vol. 95, p. 438. ½ column.

- Skips or Buckets in Sinking Vertical Shafts By C. B. Saner. E. & M J., vol 87, p. 644. 7 columns
- See also Hoisting Buckets, and Skips for Raising Mineral.
- VERTICAL CURVES IN SHAFTS. By S. Smillie. E. & M. J, vol 90, p. 1000. 5 columns. I
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- ARRANGEMENT OF HOLES IN SHAFT SINKING IN BENDIGO. T. Au. I. M. E, vol. 8, pt 2, p 197. 5 pages I.
- ARRANGEMENT OF HOLES IN SHAFT SINKING ON THE RAND. E. & M. J, vol 85, p 395. Tables I
- ARRANGEMENT OF HOLES IN SHAFT SINKING, ALLAN SHAFTS, NOVA SCOTIA. J. M Soc. N. S, vol. 12, p 22. I.
- See also Arrangement of Holes in Blasting
- See also Use of Concrete in Mines.
- See also Drainage in General and Pumps for Mine Use
- See also Ropes, Chains, Couplings, etc., and Development.

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- The Mining of Coal: Pits and Galleries in General. Min Mag, vol 8, p 163, 2 pages; vol 7, p. 73, 4 pages; p 258, 7½ pages; p. 463, 7½ pages.
- THE VARIOUS MODES IN WHICH COAL IS WORKED IN ENGLAND, AND AN EXAMINATION OF THE PRACTICE IN DIFFERENT DISTRICTS By J K. Blackwell Min. Mag., vol 1, p. 559, 12 pages; p. 3, 10 pages.
- General Remarks and Rules on the Working and Winning of Coal Min. Mag, vol 4, p. 135, 7 pages; p. 337, 6 pages.

- Some Remarks on Coal Mining. By J Marlor Min Mag, vol. 5, p 415, 4 pages, p 458, 10½ pages, vol. 6, p 27, 13½ pages; p. 107, 10 pages; p 213, 12½ pages; p 323, 10 pages
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- THE TWO-ENTRY METHOD OF MINING IN SOUTHERN INDIANA. E. & M J., vol 90, p. 870 4 columns I.
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- COAL MINING AT DANTE, VIRGINIA. By R. W. Stone. U. S. G. S., Bull 316, p. 68. 8 pages I. 1906.
- METHOD OF MINING COAL IN WASH-INGTON M & M, vol. 30, p. 17. ½ column. I.
- METHODS OF MINING COAL IN WEST VIRGINIA. M. & M., vol. 29, p 509. 11½ columns. I.
- COAL MINING AT MORGANTOWN, WEST VIRGINIA. By R. B Brimsmade. E & M. J, vol. 89, p. 1236. 5 columns.
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LA BÉRANDIÈRE COLLERIES BY H C. Annett. T. I M E, vol. 36, p. 394 30½ pages. I

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- Longwall in Inclined Seams. By J G. MacKenzie M & M., vol. 29, p. 491 3\frac{3}{4} columns. I.
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- THE BRANDY CITY HYDRAULIC MINE By G F. Taylor. E. & M. J., vol. 89, p. 1152. 3 columns. I.
- METHOD OF WORKING LUMPKIN COUNTY PLACERS, GEORGIA. Min. Mag., vol. 10, p. 469.
- GOLD MINING BY THE HYDRAULIC PROCESS IN NORTH CAROLINA AND GEORGIA. By T. L Clingman. Min. Mag., vol. 10, p. 27. 4 pages.

- PROSPECTING AND MINING GOLD PLACERS IN ALASKA By J. P Hutchins. U. S. G S., Bull. 345, p 54 24 pages 1907.
- See also Prospecting, Etc.
- HYDRAULIC MINING IN ALASKA By T A. Rickard. Min Mag., London, vol. 1, p 139. 6 columns. I
- PLACER MINING IN ALASKA IN 1904. By A. H. Brooks. U. S. G. S., Bull. 259, p. 18. 13 pages.
- METHODS AND COSTS OF GRAVEL AND PLACER MINING IN ALASKA By C. W. Purington. U S G S., Bull. 263 273 pages I 1905
- Nome Placer Mining. By T. M. Gibson Min. & Sci Press, vol 101, p 809. 3½ columns
- PLACER MINING IN THE YUKON-TANANA REGION, ALASKA By C E Ellsworth. U S G S., Bull. 442, p. 230. 16 pages 1909
- MINING IN THE FAIRHAVEN PRECINCT. By F. F. Henshaw. U S. G. S., Bull. 379, p 355 15 pages I. 1908.
- PLACER GOLD MINING IN INTERIOR ALASKA. E. & M. J, vol. 87, p 591. 9 columns
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 Min. & Sci. Press, vol. 98, p. 220.

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- DREDGING FOR GOLD. Min. Mag, London, vol 2, p. 217. 7 columns I.
- HYDRAULIC DREDGING FOR GOLD By H. G. Granger. Min & Sci. Press, vol. 99, p 35 1½ columns.
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- Conditions of Gold Dredging in French Guiana. By A Bordeaux. E & M. J, vol 90, p 562 6½ columns. I
- Dredging in the Rivers of French Guiana T A I. M E, vol 41, p 583. 8 pages.
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- GOLD DREDGING AT PARACALE, PHILIP-PINE ISLANDS. Min. & Sci Press, vol 100, p. 258. 3½ columns. Map.
- GOLD DREDGING IN RUSSIA. By I I. Rogovin E & M. J., vol. 87, p. 1050. 1\frac{1}{2} columns.
- Dredging at Neviansk. By C W. Purington. Min Mag, London, vol 2, p 206. 4 columns. I.

- DREDGING FOR PLATINUM IN THE URALS, RUSSIA. By L Tovey E. & M J, vol 86, p 701 15 columns. I.
- Gold Dredging in Siberia. By J B. Landfield Min. & Sci Press, vol. 99, p 423 4½ columns I.
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- PLATINUM AND GOLD LOSSES IN DREDGING. By W B. Winston Min. & Sci. Press, vol. 99, p. 234. 11 columns.
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- THE DEVELOPMENT AND OPERATION OF A LARGE ELECTRIC TRANSMISSION AND CONVERSION SYSTEM. By E. F. Smith. J. W Soc. E., vol 12, p. 409. 29 pages. I.
- See also ELECTRICITY IN THE MINE, and first volume of INDEX, also Cost of Power.

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- CRUSHING ORE By M. P. Bass. Min & Sci. Press, vol. 96, p. 354. 13 columns. I.
- THE MECHANICS OF ORE CRUSHING. By C. De Kalb. Min & Sci Press, vol. 96, p. 155. 2½ columns I
- CRUSHING BY STAGES By A Del Mar Min & Sci. Press, vol 101, p 614. 2½ columns
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- Breaking Ore by Trip Hammer, El Cobre, Cuba. M. & M, vol. 31, p. 451. I.
- ECONOMY OF POWER IN CRUSHING ORE. By E. A. Hersam. Min. & Sci. Press, vol. 95, p. 621. 12 columns.
- THE CALCULATION OF THE COMPARA-TIVE EFFICIENCIES OF CRUSHING AND GRINDING MACRINES. By R. W Chapman T. Au. I. M. E, vol. 13, p. 154. 4 pages. I.

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- PRACTICAL NOTES ON DRY CRUSHING MILLS IN WESTERN AUSTRALIA P. C. M. & M. Soc. S. A., vol. 10, p. 222. 5 columns.
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Sci. Press, vol. 100, p. 123. 3 columns. I.

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- MINE SAMPLING AND CHEMICAL ANALYSIS OF COALS TESTED AT THE UNITED STATES FUEL-TESTING PLANT, NORFOLK, VIRGINIA. By J. S. Burrows. U. S. G. S., Bull 362. 23 pages. 1908.
- THE IMPORTANCE OF UNIFORM AND SYSTEMATIC COAL MINE SAMPLING. By J. S. Burrows. U. S. G. S., Bull. 316, p. 486. 32 pages. I. 1906.
- SAMPLING AT COAL MINES. M. & M., vol. 31, p 91 1 column. I.
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 Press, vol. 97, p 531. 7½ columns.
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- A New Method of Measuring Heights by Means of the Barometter. By G. K. Gilbert. U. S. G S, 2d Ann. Rept, pp. 403-566. 1880-81. I
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- TRIANGULATION AND SPIRIT LEVELING IN INDIAN TERRITORY. By C. H. Fitch. U. S. G. S., Bull 175. 141 pages. Map. 1900
- On Methods of Making Large Scale Contour Surface Plans of Claims or Mining Properties. By W. H Boyd J C M I, vol. 13, p. 444. 11 pages. D
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- COOPERATION IN TOPOGRAPHY, HYDROGRAPHY AND GEOLOGY, BETWEEN THE UNITED STATES GEOLOGICAL SURVEY AND THE VARIOUS STATE GOVERNMENTS By E. W. Parker. J. M. Soc. N S., vol. 13, p. 109. 15 pages.
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- SURVEY OF THE BOUNDARY LINE BETWEEN IDAHO AND MONTANA FROM THE INTERNATIONAL BOUNDARY TO THE CRESTOF THE BITTEROOT MOUNTAINS By R. W. Goode U. S. G. S., Bull. 170. 67 pages I 1900
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- vol. 89. p. 1149. 1 column. I.
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- A DISCUSSION OF MINE CURVE PROB-LEMS. By J E. Tiffany. E. & M. J., vol. 86, p. 230. 12½ columns. I. CONTOUR MAPS OF ORE-BODIES. M.
- & M, vol 29, p. 343. } column. I. See also Cost of Surveying.

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- PLUMBING A DEEP SHAFT. Min & Sci. Press, vol. 95, p. 427, 11 columns.
- PLUMBING A SHAFT IN THE ANTHRA-CITE FIELDS. Coal Mining Supplement, E & M. J., vol. 88, p. 37. 2½ columns I.
- MODERN METHOD OF PLUMBING A SHAFT. By J. P Davis. E. & M. J., vol. 89, p. 1174. 5 columns. I.
- MINE SURVEYING. With Special Reference to Shaft Surveying. By C. E. Morrison. Sch. Mines Quart., vol 29, p. 34. 12 pages. I.

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- Transportation. By R. Reford J. M. Soc. N. S., vol. 12, p. 23. 34
- COAL MINE TRANSPORTATION. By E. B Wilson M & M, vol. 31, p 408. 3½ columns. I.
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- TRANSPORTATION IN NICARAGUA A. I. M E, vol 41, p. 602. 2 pages.
- TRAVEL IN COLOMBIA. By C. De Kalb. Min & Sci. Press, vol. 98, p. 350. 4 columns Map.
- PNEUMATIC TRANSPORTATION OF COAL. E. & M. J, vol. 89, p. 674. 1 column.

- See also Compressed Air in Mining. HINTS TO ORE SHIPPERS. By S E. Bretherton. Min. & Sci. Press. vol. 101, p. 530. 5\frac{2}{3} columns.
- See also Economic and Industrial FEATURES OF MINING.

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- PORTAGE IN THE BOLIVIAN TIN MILLS. E & M. J., vol. 90, p. 1054. 1 column
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- MULE-BACK TRANSPORTATION OF SECTIONALIZED MACHINERY. By F. C. Roberts and W. W Bradly. Min & Sci. Press, vol. 98, p. 751. 9\frac{2}{3} columns. I.
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- TRANSPORT OF MACHINERY IN MOUNTAINOUS COUNTRIES By H. H. Kress and A S. Cameron Min. & Sci Press, vol. 95, p. 471 2 columns I.
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- See also Inspection of Mines.
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- COAL DISTRIBUTION AND THE OWNERSHIP OF COAL CARS. E. & M. J, vol. 86, p. 623. 1 column.
- Some Phases of the American Railroad Problem By S. Fish. Sch. Mines Quart., vol. 29, p. 1. 14 pages.
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SPECIFICATIONS AND NOTES ON MAC-ADAM ROAD CONSTRUCTION By A. N. Johnson. J. W Soc. E., vol. 13, p. 767. 25 pages.

PRELIMINARY REPORT ON GEOLOGY OF COMMON ROADS OF UNITED STATES. By N. S. Shaler U. S. G. S, 15th Ann Rept, pp. 1-110. 1893-94.

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- RATIO OF MINE WATER TO RAINFALL. M. & M., vol. 29, p. 248. \(\frac{1}{2}\) column.
- PRINCIPLES AND CONDITIONS OF THE MOVEMENTS OF GROUND WATER. By F. H King. U. S. G. S, 19th Ann. Rept, pt. 2, pp. 59-294. 1897-98. I
- THEORETICAL INVESTIGATION OF Motion of Ground Waters. By C. S. Slichter. U. S. G. S., 19th Ann Rept., pt. 2, pp. 295-384. 1897-98 I
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- WATER SUPPLY FOR KALGOORLIE. By M. W. Von Bernewitz Min. & Sci. Press, vol. 96, p. 709. 2½ columns.
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- WATER LOSSES AT BROKEN HILL. By T. H. Palmer. E & M. J, vol. 87, p. 851. 5 columns.
- REQUISITE AND QUALIFYING CONDITIONS OF ARTESIAN WELLS. By T. C. Chamberlin. U. S. G. S., 5th Ann. Rept, pp. 125–173. 1883–84. I.
- PRELIMINARY REPORT ON ARTESIAN WATERS OF A PORTION OF THE DA-

- KOTAS. By N. H. Darton. U. S. G. S., 17th Ann. Rept., pt. 2, pp. 603-694. 1895-96. I.
- THE CRETACEOUS FORMATIONS OF TEXAS WITH SPECIAL REFERENCE TO ARTESIAN WATERS. By R. T. Hill. U. S. G. S., 21st Ann. Rept., pt. 7, 666 pages. 1899–1900. I.
- ARTESIAN WELL PROSPECTS IN THE ATLANTIC COASTAL PLAIN REGION. By N. H. Darton. U. S. G. S., Bull 138. 232 pages. I. 1896.
- CONTROLLING FACTORS OF ARTESIAN FLOWS. By M. L. Fuller. U. S. G S, Bull. 319. 46 pages. 1908.
- THE ARTESIAN WELL AT CHARLESTON. By R. N. Lynch. Mm. Mag., vol. 1, p 251. 5½ pages.
- A WATER POWER RECONNAISSANCE IN SOUTHEASTERN ALASKA. Bỷ J. C. Hoyt. U. S. G. S., Bull. 442, p. 147. 11 pages. I. 1909.
- WATER SUPPLY OF THE YUKON-TANA-NA REGION, 1909. By C. E Ellsworth. U. S. G. S., Bull. 442, p. 251. 33 pages. 1909.
- WATER SUPPLY INVESTIGATIONS IN SEWARD PENINSULA. By F. F. Henshaw. U. S. G. S., Bull. 379, p. 370, 32 pages, 1908; Bull. 442, p. 372, 44 pages, 1909.
- WATER SUPPLY OF THE YUKON-TANANA REGION, 1907–1908. By C. C. Covert and C. E. Ellsworth. U S. G. S., Bull. 379, p. 201. 28 pages. 1908.
- Underground Waters of Bishes, Arizona. Min. & Sci. Press, vol. 99, p. 360. 4 column.
- GEOLOGY AND UNDERGROUND WATER RESOURCES OF NORTHERN LOUISIANA AND SOUTHERN ARKANSAS. By A. C. Veatch. U S. G. S., Professional Paper 46. 422 pages. I. 1906.
- SIXTY YEARS OF RAINFALL IN CALI-FORNIA. By A. G. McAdie. Min. & Sci. Press, vol 101, p. 640. 3 columns. D.

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- WATER CONDITIONS IN THE OIL FIELD AT COALINGA. By R. P. McLaughlin. Min & Sci. Press, vol. 101, p. 305. 2 columns.
- UNDERGROUND WATER OF THE ARKAN-SAS VALLEY IN EASTERN COLORADO. By G. K. Gilbert U. S. G. S., 17th Ann. Rept., pt. 2, pp. 551-601. 1895-96. I
- Geology and Underground Waters of the Arkansas Valley in Eastern Colorado By N. H. Darton. U. S. G. S., Professional Paper 52, 90 pages. I 1906.
- GEOLOGY AND WATER RESOURCES OF THE SNAKE RIVER PLAINS OF IDAHO. By I. C. Russell U. S. G. S., Bull. 199. 192 pages. I. 1902.
- WATER RESOURCES OF ILLINOIS. By F. Leverett. U S G S., 17th Ann Rept., pt 2, pp. 695-849, 1895-96. I.
- Well Waters of Ohio and Indiana. By F. Leverett. U. S. G. S., 18th Ann. Rept., pt. 4, pp. 419-560. 1896-97. I
- PRELIMINARY REPORT ON GEOLOGY AND WATER RESOURCES OF NEBRAS-KA WEST OF THE ONE HUNDRED AND THIRD MERIDIAN. By N. H. Darton. U. S. G. S., 19th Ann. Rept., pt. 4, pp 719-785. 1897-98. Î
- PRELIMINARY REPORT ON THE GEOLOGY AND WATER RESOURCES OF CENTRAL OREGON By I. C. Russell. U. S. G. S., Bull. 252 138 pages. I. 1905
- PRELIMINARY DESCRIPTION OF THE GEOLOGY AND WATER RESOURCES OF THE SOUTHERN HALF OF THE BLACK HILLS AND ADJOINING REGIONS IN SOUTH DAKOTA AND WYOMING. By N. H. Darton. U. S. G. S., 21st Ann. Rept, pt. 4, pp. 489–599. 1899–1900. I
- THE GEOLOGY AND WATER RESOURCES OF THE BIGHORN BASIN, WYOMING. By C. A. Fisher. U. S G S., Professional Paper 53. 72 pages. I. 1907.

- GEOLOGY AND WATER RESOURCES OF THE NORTHERN PORTION OF THE BLACK HILLS AND ADJOINING RE-GIONS IN SOUTH DAKOTA AND WYOMING. By N H Darton U. S.G. S., Professional Paper 65. 105 pages. I. 1909.
- NATURAL MINERAL WATERS OF THE UNITED STATES. By A. C. Peale. U. S. G. S., 14th Ann Rept, pt. 2, pp. 49-88. 1892-93. I.
- PALATABLE WATERS OF EASTERN UNITED STATES. By W. J McGee. U. S G S., 14th Ann. Rept, pt. 2, pp. 1-47. 1892-93.
- THE PUBLIC LANDS AND THEIR WATER-SUPPLY. By F. H. Newell. U. S. G. S., 16th Ann. Rept., pt. 2, pp. 457-533. 1894-95. I.
- WATER RESOURCES OF A PORTION OF THE GREAT PLAINS. By R. Hay. U. S. G. S, 16th Ann. Rept., pt. 2, pp. 535-588 1894-95. I.
- GEOLOGY AND UNDERGROUND WATER
 RESOURCES OF THE CENTRAL GREAT
 PLAINS. By N. H Darton U. S.
 G. S., Professional Paper 32. 433
 pages. I 1905.
- WATER SUPPLY FOR IRRIGATION. By F H Newell. U S G.S., 13th Ann. Rept., pt. 3, pp. 1-99. 1891-92. I.
- A NOTE ON ALLEGHENY RIVER WATER. By F C Phillips P. E. Soc W. Pa, vol 2, p. 279. 4½ pages. D.
- PECULIAR WATER PROBLEM AT CAN-DELARIA MINES, CHIHUAHUA, MEXI-CO. By G A. Laird E & M. J., vol. 90, p 658. 5 columns.
- Tailing Dams and Conservation of Mill Water By W. H. Storms. E. & M. J., vol 90, p. 266. 7 columns. I
- See also Dams for Mining Purposes and Conservation.

Measurement of Water

DISCHARGE FORMULAS FOR CAST IRON PIPE. By G. L Bean. Min & Sci Press, vol 98, p. 666. 21 columns. Table.

- SOLUTION OF KUTTER'S FORMULA.

 By L. I. Hewes and J. W. Roe. Min

 & Sci Press, vol. 99, p. 429. 2½ columns. I.
- A GRAPHIC SOLUTION OF KUTTER'S FORMULA. By L I. Hewes and Joseph W. Roe. T A. I M E, vol. 40, p. 231. 15½ pages. I.
- RESULTS OF STREAM MEASUREMENTS. By F. H. Newell U. S. G S, 14th Ann. Rept, pt. 2, pp. 89-155. 1892-93. I.
- Weir Measurement of Water Min. & Sci Press, vol. 99, p 265. 3 columns. Tables.
- VELOCITY OF FLOW OF WATER IN PIPES By L. M. Green. Min & Sci. Press, vol. 99, p. 157. 32 columns.
- Table of Water Gauges. E & M J., vol. 87, p. 1130 1 column
- WEIGHT OF WATER PER CUBIC FOOT. By C. D. Demond Min. & Sci Press, vol 95, p. 620. 2 columns. Table.

See also WEIGHTS AND MEASURES

Pollution and Purification of Water

THE POLLUTION OF STREAMS BY SPENT GAS-LIQUORS FROM COKE OVENS, AND THE METHODS ADOPTED FOR ITS PREVENTION. By H. M. Wilson. T. I. M. E., vol. 39, p. 71. 24 pages. I.

- Administration of Pennsylvania Laws Respecting Stream Pollution. By F. H. Snow P. E Soc. W Pa., vol. 23, p. 266. 17½ pages.
- NOTE ON A DEPOSIT OF SULPHUR IN A COLLIERY WATER By G H. Stanley. T I. M. E, vol. 36, p. 223. 4 pages.
- MINERAL IN UNDERGROUND WATERS.
 Min. & Sci Press, vol 95, p. 590.
 1½ columns

See also first volume of INDEX.

Water in Milling

- WATER REQUIRED PER TON OF ORE TREATED M & M, vol. 29, p 407.
- WATER REQUIRED FOR CONCENTRAT-ING MACHINERY. M. & M., vol. 29, p. 380. 1 column
- WATER REQUIRED FOR CONCENTRATING MACHINERY P. C. M & M. Soc S. A., vol. 10, p. 23. ½ column.
- NOTES ON THE STAMP MILL WATER FEED AND PACKED UP DIES INTRO-DUCING THE SHALLOW FRONT MOP TAR BOX. By H T. Pitt. P C M. & M Soc. S A., vol. 8, p. 373. 61 columns. I.
- SALT WATER IN STAMP MILLS By T. A Rickard Min. & Sci. Press, vol. 98, p. 860. 3½ columns.

See also Cost of Water.

LIST OF PUBLICATIONS INDEXED

Publications, indexed (abbrevia- tions)	Volumes in- dexed in first volume of In- dex (inclusive)	Volumes indexed in second volume of Index (inclusive)	Remarks
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It has been found impracticable to index all subjects considered in the references given in this work, but it is hoped that the present index will prove to be amply exhaustive to give ready access to any desired information.

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